



# SECOND QUARTER MONITORING REPORT APRIL TO JUNE 1996 KIN-BUC LANDFILL OPERABLE UNITS 1 AND 2

Prepared for

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In map pocket In map pocket

#### **EXECUTIVE SUMMARY**

The Kin-Buc Landfill Site is a closed 200-acre industrial/commercial landfill located in Edison, New Jersey, which operated under a New Jersey Department of Environmental Protection (NJDEP) permit until 1976. The USEPA placed the Kin-Buc Landfill on the National Priorities List (NPL) in 1981. Between 1983 and 1988, the respondents conducted a Remedial Investigation/Feasibility Study (RI/FS) which resulted in a Record of Decision (ROD) by USEPA in 1990 which called for source control of Operable Unit 1 (OU1), and a second RI/FS to determine the nature and extent of contamination outside the source area, thus defining Operable Unit 2 (OU2). Following the completion of this RI/FS, a second ROD was issued for OU2 in 1992.

Operable Unit 1 includes both Kin-Puc I and II Mounds, the former Pool C Area and a portion of the Low-Lying Area between Kin-Buc I and the Edison Landfill. The remedial action specified in the ROD for OU1 included the construction of a slurry wall around OU1, the collection and treatment of leachate and groundwater from within the containment area and the capping of the area within the slurry wall. OU2 includes Mound B, Edmonds Creek and adjacent wetlands, the remaining Low-Lying Area between OU1 and the Edison Landfill, Martins Creek and the Raritan River. The OU2 ROD called for the excavation and disposal of PCB-contaminated sediments from within the Edmonds Creek Marsh Area, the restoration of disturbed wetland areas and groundwater/surface Remedial construction activities for both OU1 and OU2 were water monitoring. completed by the end of August 1995. In accordance with the RODs, water quality, hydraulic, landfill gas and wetlands monitoring is required to evaluate the effectiveness of the remedial actions. This report documents the results of 1996 Second Quarter monitoring activities.

The OU1 groundwater monitoring well network consists of wells located on either side of the slurry wall to monitor water quality and elevations in the three different hydrogeological units. The OU2 groundwater and surface water monitoring network also provides for water quality monitoring in the three water-bearing zones (refuse, sand/gravel and bedrock). The OU2 monitoring program is designed to monitor water quality and elevations in the Low-Lying Area, Mound B and the Raritan River following the containment of OU1.

The key findings made during the Second Quarter of 1996 are summarized as follows:

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- Dissolved metals analysis in the OU1 refuse and bedrock wells indicates concentrations of the select metals are generally higher inside the slurry wall than outside. At Transect Location Nos. 2 and 5 in the refuse and at Transect Location No. 5 in the bedrock, all the metals concentrations were higher inside the wall than outside the wall. In the sand and gravel wells in OU1, metals concentrations were similar across the wall or slightly greater inside than outside the wall.
- General chemistry analysis in the OU1 refuse, sand/gravel and bedrock wells indicates concentrations of the indicator parameters were generally higher inside than outside the slurry wall. At Transect Location Nos. 2 and 3 in the refuse, all the general chemistry parameters were higher inside than outside the wall. At Transect Location Nos. 2, 3 and 5 in the sand and gravel, nearly all the general chemistry parameters were higher inside than outside the wall. At Transect Location No. 5 in the bedrock, all the general chemistry parameters were higher inside than outside the wall.
- Overall water quality in the three hydraulic zenes of OU2 was observed to be better than the respective units of OU1 wells inside the slurry wall during the Second Quarter of 1996. In the OU2 refuse wells, the concentrations of dissolved metals were similar or less than the levels evidenced by OU1 wells situated outside the wall. In the OU2 sand and gravel wells, metals concentrations varied. Sodium was detected at 3020000 ug/l at WE-10S and lead was not detected in any sand and gravel well except GEI-6S. Lead was not detected in any OU2 bedrock monitoring well.
- General chemistry analysis in the OU2 refuse and sand/gravel wells indicates similar concentrations to the OU1 wells in like hydrogeologic units outside the slurry wall. In the bedrock monitoring wells, indicator parameter concentrations were generally less than the levels evidenced by OU1 bedrock wells outside the slurry wall.
- Two months of continuous water level monitoring data indicates that generally
  intragradient conditions are being maintained within the refuse unit of OU1 across the
  slurry wall. Based upon the May manual water level monitoring results, an upward
  vertical gradient in the OU1 refuse unit inside the slurry wall is not generally
  evidenced.
- At the upgradient OU2 bedrock monitoring location, WE-114D, certain metals
  concentrations were elevated relative to downgradient OU2 wells while indicator
  parameter concentrations were generally less than downgradient OU2 wells. Metals
  and general chemistry analysis in WE-10S and WE-10R indicate that the water quality
  at that location is unique relative to other OU2 wells.
- No observable impact to the Raritan River water quality from OU2 was noted based on the Second Quarter of 1996 sampling results.

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- Combustible gas was not detected in any of the six gas monitoring wells located on the north side of OU1. Monitoring at the operational flare port inlet indicates that the landfill gas collection system is delivering sufficient levels of combustible gas (methane) to promote proper combustion at the flare.
- Wetlands restoration monitoring for the Second Quarter of 1996 indicates that initial
  plantings to establish cordgrass (<u>Spartina alterniflora</u>), have been unsuccessful. Other
  native, non-phragmite opportunistic species have begun to recolonize the remediated
  zones, and the overall appearance of the Edmonds Creek Marsh Area has been
  enhanced.

#### 1.1 Purpose of Monitoring

The purpose of the monitoring program is to evaluate the effectiveness of the Operable Units 1 and 2 (OU1/OU2) Remedial Design/Remedial Action (RD/RA). The Second Quarter 1996 monitoring provides water quality data, hydraulic monitoring data and wetlands restoration monitoring information following the implementation of the OU1 and OU2 remedies.

#### 1.2 Purpose of Report

The purpose of this report is to present the OU1 and OU2 monitoring program findings for the Second Quarter of 1996. The data obtained during this monitoring period will be used to supplement a database that documents analytical results, hydraulic monitoring, and wetland restoration efforts. The report comments on groundwater quality and hydraulic control for OU1 inside and outside of the circumferential soil-bentonite slurry wall, which will be used to evaluate the performance of the slurry wall as a hydraulic barrier. Operable Unit 2 groundwater quality monitoring will document water quality in the Low-Lying Area and Mound B after containment of OU1. Wetland restoration will document the Edmonds Creek Marsh Area (ECMA/OU2) remediated zones 1 through 5 wetland structure and function. Surface water quality of the Raritan River is also examined relative to site groundwater quality.

#### 1.3 Site Background

The Kin-Buc Landfill Site is a 200-acre closed industrial/commercial landfill located at the end of Meadow Road in Edison, New Jersey. The site is bordered by the Edmonds Creek Marsh Area (ECMA) to the east, the Edison Landfill to the south, the Raritan River to the west, and industrial use to the north. The Kin-Buc Landfill was used for the disposal of municipal, industrial, and hazardous waste as early as 1947. The largest volumes of waste apparently consisted of industrial waste material, wastewater/liquid and sludge. It was a New Jersey state-approved (NJDEP) landfill between 1971 and 1976. In 1976, the NJDEP revoked Kin-Buc's operating permit upon United States Environmental Protection

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Agency (USEPA) investigation. In 1981, Kin-Buc was placed on the CERCLA Superfund National Priorities List (NPL).

A Record of Decision (ROD) issued in September 1990 by the USEPA to the Respondents, mandated a Remedial Design/Remedial Action (RD/RA) for Operable Unit 1. The Remedial Action construction was implemented between March 1994 and August 1995, and included the construction of a circumferential slurry wall, collection and treatment of leachate and groundwater from within the slurry wall containment area and construction of a low permeability final cover system (Blasland, Bouck & Lee, September 1995, Revised February 1996).

A separate ROD was issued by the USEPA to the Respondents in November 1992 for Operable Unit 2. The Remedial Action for OU2 included the excavation of PCB-contaminated sediment from within the ECMA, disposal of the excavated material within the OU1 slurry wall, and restoration of excavated wetlands. Operable Unit 2 Remedial Action was substantially completed in July 1995 (Blasland, Bouck & Lee, September 1995, Revised February 1996).

#### 1.4 Second Quarter Monitoring Activities

Monitoring and sampling for the Second Quarter 1996 (April to June) took place according to the procedures and methods outlined in the Draft Operations and Maintenance (O&M) Manual for the Kin-Buc Landfill prepared on behalf of the Respondents by Wheelabrator EOS in September 1995 as modified by letter to EPA dated February 28, 1996. The modified hydraulic monitoring program will be approved by the EPA upon final approval of the Draft O&M Manual. Continuous water level monitoring was initiated for the Second Quarter 1996 on April 25, 1996, with the installation of 16 In-Situ "Trolls" in the OU1 refuse and sand/gravel wells. The "Trolls" have generated 2 months of water level data that are evaluated in Section 4 of this report.

The groundwater and surface water monitoring program in the Operations and Maintenance Manual was based on the OU1 Remedial Design/Remedial Action Groundwater Monitoring Plan and the OU2 Closure Plan Final Addendum No. 1 (Wehran Engineering Corporation, December 1992 and August 1994).

The groundwater and surface water samples for the Second Quarter 1996 were analyzed by EMCON's subcontract laboratory, NYTEST Environmental (NJ Certification No. 73469) for the analytes listed in Table 1-1, for the quarterly monitoring parameters in accordance with the methods specified. Fecal, strep, and total coliform analysis was not performed on some samples received at the laboratory on the second day of sampling (May 15, 1996). The appropriate containers were filled in the field, but because of laboratory error the sample analysis was not performed. The well locations without results are indicated with an N/A on the analytical data presentation tables. A total of

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41 groundwater monitoring wells, 4 surface water locations, and 6 gas monitoring wells were sampled over a 3-day field effort on May 14, 15, and 16, 1996. Any purge water or development water associated with sampling efforts was containerized in a mobile tanker and disposed of at the treatment plant or at the various leachate collection system cleanouts located around the perimeter of the site.

For OU1, samples were collected from 26 new monitoring wells installed during Operable Unit 1 Remedial Construction Activities. The 26 wells are located at 5 transects across the OU1 slurry wall as shown on Drawing 1, and listed in Table 1-2.

The groundwater monitoring system for OU2 consists of 5 monitoring well triplets in the Low-Lying Area and Mound B, as shown on Figure 1-1, and an upgradient location north of OU1, as shown on Drawing 1. Of the total 16 monitoring wells, 15 were sampled for the Second Quarter 1996. One well, GEI-7G, was dry at the time of sample collection. Four surface water monitoring locations sampled during low tide in the Raritan River adjacent to Mound B are indicated on Figure 1-2. The groundwater and surface water monitoring network for OU2 is listed in Table 1-3.

Semi-annual wetlands restoration monitoring was conducted on July 18, 1996. Plot sampling, fixed point photographs, and general observations of wetland structure and function were performed. The Wetlands Restoration Monitoring Progress Report can be found as Appendix G.

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#### 2 DESCRIPTION OF MONITORING PROGRAM

#### 2.1 Operable Unit 1

The groundwater monitoring system for Operable Unit 1 is located in the component areas consisting of:

- Kin-Buc I Mound
- Kin-Buc II Mound
- Pool C Area
- Low-Lying Area contained by circumferential slurry wall

The groundwater monitoring well network (Table 1-2), consists of 10 wells screened in the refuse/fill, 6 wells screened in the sand and gravel, and 10 wells screened in the bedrock. The OU1 monitoring well network is designed to monitor groundwater quality and elevations inside and outside of the slurry wall to evaluate the performance of the slurry wall as a hydraulic barrier. The monitoring wells are located along 5 transects which are installed in pairs to monitor the same hydrogeologic units across the slurry wall, so that water quality and elevations on either side of the wall can be evaluated. The well pairs are indicated in Table 1-2.

At three transects, the monitoring wells are installed as pairs that monitor the refuse, sand/gravel, and bedrock units. These locations are:

- Transect Location No. 2: W-3G/W-4G, W-3S/W-4S, W-3R/W-4R
- Transect Location No. 3: W-5G/W-6G, W-5S/W-6S, W-5R/W-6R
- Transect Location No. 4: W-7G/W-8G, W-7S/W-8S, W-7R/W-8R

Two transects have monitoring wells installed as pairs in the refuse and bedrock units due to the absence of sand and gravel deposits in those areas of the site. These locations are:

• Transect Location No. 1: W-1G/W-2G, W-1R/W-2R

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Transect Location No. 5: W-9G/W-10G, W-9R/W-10R.

A discussion of groundwater quality observations follows in Sections 3.1 through 3.3 for each hydrogeologic unit.

#### 2.2 Operable Unit 2

The groundwater and surface water monitoring system for Operable Unit 2 monitors groundwater quality in the Low-Lying Area and Mound B, following containment of OU1, as well as the water quality of the Raritan River that may be attributable to site contaminants. The groundwater monitoring well network is listed on Table 1-3 and consists of 5 wells screened in the refuse, 5 wells in the sand and gravel, and 6 wells in the bedrock (including 1 upgradient bedrock location). The locations of the wells were chosen based on prior groundwater quality data and anticipated groundwater flow direction, following installation of the OU1 slurry wall. Figure 1-1 depicts the monitoring well locations.

The surface water monitoring network, which is also listed on Table 1-3, consists of four locations in the Raritan River adjacent to Mound B. The upstream sampling point (RR-01) is located downstream of the confluence with Mill Brook/Martin's Creek. Two other sampling points are adjacent to Mound B (RR-02 and 03). The fourth monitoring location (RR-04) is located downstream of the OU1 leachate treatment plant discharge. Figure 1-2 depicts the surface water monitoring locations.

A discussion of groundwater quality observations follows in Sections 5.1 through 5.3 for each hydrogeologic unit. Surface water results are discussed in Section 5.4.

Wetlands restoration monitoring in the Edmonds Creek Marsh Area (ECMA) consists of belt transect and fixed point photograph locations. The results of monitoring in the ECMA can be found in the Wetlands Restoration Monitoring Progress Report provided as Appendix G. The belt transects and photograph locations are indicated on Drawing 2 provided with Appendix G.

#### **3 OU1 GROUNDWATER QUALITY**

Groundwater quality results for the OU1 monitoring wells are summarized in Table 3-1. The database includes select metals and general chemistry parameters. The analytical report is provided in Appendix A. Field data sheets are provided in Appendix B. QA/QC sample results for OU1 are provided in Appendix C.

#### 3.1 Refuse Wells

The inorganic constituents, sodium and zinc, were evidenced in lower concentrations in the refuse wells at all transects at the outside paired wells across the slurry wall. At Transect Locations No. 2 and 5, all metals detected (copper, iron, lead, sodium, zinc) were at lower concentrations outside the wall than inside the wall. At Transect Location No. 4, only iron at 41,000 ug/l in well W-8G outside the wall was noted at a higher concentration than well W-7G inside the slurry wall. At Transect Location No. 3, copper and iron were noted at higher concentrations at the outside paired refuse well (W-6G) than the inside paired well (W-5G).

The general chemistry parameters indicative of leachate impact were at higher concentrations for the inside paired wells W-3G and W-5G at Transect Location Nos. 2 and 3 for all constituents analyzed this quarter. At Transect Location No. 4, the general chemistry parameters at the well inside the slurry wall (W-7G) was evidenced at greater concentrations with the exception of color, phenol, and surfactants. Overall, for Transect Location Nos. 2, 3, 4, and 5 there was a general one order of magnitude increase in constituent concentrations for inside paired wells. At Transect Location No. 1, there were some constituents, most notably color, BOD, and COD that were evidenced at higher concentrations in the outside paired well compared to the inside paired well.

#### 3.2 Sand and Gravel Wells

Inorganic constituent concentrations in the sand and gravel wells varied across the slurry wall. At Transect Location No. 2, iron, sodium, and zinc were evidenced in lower concentrations outside the slurry wall. At Transect Location No. 4, zinc concentrations were less outside the wall than inside the wall. The inorganic constituents, copper, iron, sodium, and zinc were all evidenced at higher concentrations at well W-6S outside the slurry wall than inside the wall.

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For the sand and gravel wells at Transect Location Nos. 2 and 3, the inside paired wells generally showed higher concentrations of indicator parameters than the outside paired wells. At Transect Location No. 5, all the general chemistry parameters, except color, were greater inside the wall than outside the wall. Color, chloride and sulfate were the only exceptions at Transect Location Nos. 2 and 3, which were at a slightly higher concentration outside the wall at wells W-4S and W-6S than inside the wall.

#### 3.3 Rock Wells

At Transect Location Nos. 4 and 5, iron, sodium and zinc in the rock wells all showed higher concentrations inside the slurry wall than outside wall. Copper and lead were the only constituents evidenced higher (2.5 and 2.6 ug/l) in wells W-8R and W-10R, respectively, outside the wall at Transect Location Nos. 4 and 5 than inside. At Transect Location No. 2, copper, iron and zinc showed higher concentrations inside the slurry wall than outside. Transect Location Nos. 1 and 3 indicated variations in inorganic constituent concentrations across the wall, with copper and zinc greater in wells W-2R and W-6R outside the wall. Iron was also elevated in W-6R outside the wall than W-5R inside the wall.

The rock wells indicated higher concentrations of nearly all indicator parameters at Transect Location No. 5 at the inside paired wells. Ammonia was a notable exception with a concentration of 133 mg/l at W-2R outside the slurry wall at Transect Location No. 1. At Transect Location Nos. 2, 3, and 4, most general chemistry concentrations were higher inside the slurry wall than outside. For the constituents chloride, surfactants, TDS, and TOC, evidenced at higher concentrations outside the wall at wells W-4R, W-6R, and W-8R, the concentrations were only slightly greater and within the same order of magnitude.

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#### 4 HYDRAULIC MONITORING

The hydraulic monitoring program for OU1 has been designed to assess the hydraulic performance of the slurry wall. Specifically, the maintenance of lower heads inside of the wall within the refuse will represent intragradient flow conditions, thereby minimizing the potential for contaminant migration beyond the limits of the wall. Also, the monitoring program will assess the ability of the groundwater pumping inside the wall to achieve and maintain an upward gradient between the bedrock and the overlying sand and gravel deposits. The attainment and maintenance of upward vertical gradients will minimize the potential for vertical migration of contamination into the bedrock groundwater regime.

#### 4.1 Operable Unit 1

Hydraulic monitoring has been conducted at the site pursuant to the Hydraulic Performance Monitoring Plan as revised in February 1996. Components of the hydraulic monitoring program consist of continuous and manual water level measurements in the refuse/sand and gravel wells and manual measurements in the bedrock wells, immediately inside and outside of the circumferential slurry wall along five transects. Continuous water level measurements were obtained at one-hour intervals using an In-Situ "Troll" Model SP4000 data logger and transducer. Manual measurements were obtained with an electronic water level indicator. The five transect locations are shown on Drawing 1.

The hydraulic monitoring program was initiated on April 25, 1996 with the installation of continuous water level recorders in all the OU1 refuse and sand/gravel wells. For this Second Quarter 1996, two months of continuous water level data have been obtained for analysis. Manual measurements were obtained during April, May, and June 1996. The manual water level monitoring results are indicated on Table 4-1.

#### 4.2 Operable Unit 2

Manual measurements were also obtained from the Operable Unit 2 wells sampled quarterly as part of the groundwater quality monitoring plan, which includes the Low-Lying Area and Mound B. Manual measurements were obtained April, May, and June 1996 concurrent with the hydraulic monitoring in OU1. The manual water level monitoring results are indicated on Table 4-1.

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#### 5 OU2 GROUNDWATER/SURFACE WATER QUALITY

Groundwater quality results for the OU2 monitoring wells are summarized in Table 5-1. Surface water quality data is summarized in Table 5-2. The database includes select metals and general chemistry parameters. The analytical report is provided in Appendix A. Field data sheets are presented in Appendix B. QA/QC sample results for OU2 are presented in Appendix D.

#### 5.1 Refuse Wells

Among the OU2 refuse wells, concentrations of dissolved metals were similar to levels observed in the OU1 wells situated outside the slurry wall. Monitoring well GEI-10G revealed iron at 72,500 ug/l, while lead was not detected. Lead was detected at 25.9 and 17.2 ug/l in wells GEI-5G and GEI-6G, respectively. Sodium was detected at 1,010,000 ug/l in well GEI-6G, while zinc was detected at 214 ug/l.

General chemistry parameters at wells GEI-5G and GEI-6G were elevated for the following parameters relative to other OU2 refuse wells: ammonia nitrogen, COD, chloride, TDS, and TOC. At well GEI-6G, ammonia nitrogen levels were 538 mg/l, COD was 1,100 mg/l, and TDS was 2,930 mg/l.

#### 5.2 Sand and Gravel Wells

Monitoring in the sand and gravel unit in OU2 revealed copper detections at WE-3S, WE-5S, and GEI-6S. Iron was evidenced at 157,000 ug/l in WE-3S. Sodium levels were elevated for all the sand and gravel wells, with the most notable concentration in WE-10S at 3,020,000 ug/l. Zinc was detected at 151 ug/l in WE-3S, 150 ug/l in GEI-6S, and 152 ug/l in WE-7S.

General chemistry parameters were elevated in WE-3S relative to other sand and gravel wells, most notably for ammonia nitrogen, BOD, COD, TDS, and TOC. Monitoring well WE-7S revealed ammonia nitrogen at 36.7 mg/l, COD at 597 mg/l, and TDS at 3,470 mg/l. Other detections included 4,200 mg/l of chloride and 7,140 mg/l of TDS in WE-10S. Nitrate was detected at 6.65 mg/l in GEI-6S and chloride was evidenced at 2,100 mg/l in WE-5S.

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#### 5.3 Rock Wells

Dissolved metals analyzed for OU2 bedrock wells revealed copper at 7.4 ug/l in the upgradient monitoring location WE-114D. Iron was detected at similar replicate concentrations in all the bedrock wells, while lead was not detected. Sodium was evidenced similarly elevated at all the bedrock wells except the upgradient location WE-114D. Zinc was detected at decreased concentrations relative to other OU2 wells screened in the refuse or sand/gravel units, but was evidenced at 68.3 ug/l in WE-114D.

General chemistry parameters in the bedrock wells evidenced fewer overall detections and lower concentrations as compared to other OU2 wells. Ammonia was detected at 10.5 mg/l in WE-6R, but generally less than 1.0 mg/l for the other bedrock wells. Chloride was evidenced between 3,300 and 4,200 mg/l in the bedrock wells, but was evidenced at just 68.5 mg/l in WE-114D. Monitoring well WE-10R revealed the highest concentration of sulfate at 405 mg/l. TDS was detected at 10,300 mg/l at WE-5R, while TOC detections were generally unremarkable relative to other OU2 wells.

#### 5.4 Surface Water

Inorganic constituents were analyzed in the total metals fraction for surface waters. Monitoring point RR-02 adjacent to Mound B, evidenced copper at 6.1 ug/l and iron at 5,070 ug/l. Lead was detected at 15.2 ug/l in RR-02 and sodium was detected in RR-01 at 25,400 ug/l. Zinc was revealed at 78.4 and 82.9 ug/l in RR-02 and RR-03, respectively.

General chemistry parameter concentrations in the surface waters were generally consistent throughout the 4 monitoring points. COD was detected at 35.6 and 43.5 mg/l in RR-01 and RR-02, respectively. Chloride, sulfate, surfactants, and TDS levels were evidenced at lesser concentrations than the OU2 monitoring wells. TOC was not detected at any surface water monitoring point.

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#### **6 LANDFILL GAS MIGRATION MONITORING**

All areas of OU1 exterior to the slurry wall contain waste materials except along the northern edge of the landfill boundary. Gas monitoring in the areas containing waste materials will likely reveal combustible gas. Since no on-site OU1 buildings are present, except the leachate treatment facility, which has its own engineered gas monitoring and control system, gas migration monitoring in the waste areas is not required by the monitoring plan.

The purpose of the gas migration monitoring program is to monitor for off-site gas migration in those areas where gas migration or accumulation could cause potential problems. Six gas migration monitoring wells are located outside of the circumferential slurry wall along the northern edge of the landfill boundary. The well locations are depicted on Drawing 1 and are spaced in 200-foot increments. Gas is not expected to be evidenced for the following reasons: the slurry wall will act as an effective barrier, the presence of an active gas extraction system and a high water table inhibiting gas migration.

#### 6.1 Gas Monitoring Well Results

Measurements of percent combustible gas (% GAS) and percent lower explosive limit (% LEL) were performed in the six gas migration monitoring wells indicated in Table 6-1 on May 15, 1996. The wells were monitored according to Attachment 1, Section 3.0 Routine Operations and Maintenance, of the Kin-Buc Landfill Draft O&M Manual (Wheelabrator, 1995). An MSA Model 62S Gascope, was used to measure the concentration of combustible gas at each well by inserting the meter's sample tubing into the well or attaching to the well head petcock and drawing the sample through the meter. No detectable levels of percent combustible gas or percent lower explosive limit were evidenced in the six gas migration monitoring wells (Table 6-1).

#### 6.2 Operational Flare Monitoring Results

The percent combustible gas by volume (% GAS) at the landfill's operational flare was recorded on May 15, 1996. A Landtec adaptor fitting was used at the inlet sample port, and monitoring with the MSA revealed combustible gas at the flare inlet at 53 percent.

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#### 7 WATER QUALITY RESULTS OVERVIEW

The Remedial Design/Remedial Action for Operable Units 1 and 2 was substantially completed by the Respondents by July 1995. Post-remedial monitoring and sampling of groundwater, surface water, landfill gas, and wetlands has been completed for two quarters' monitoring periods. The remedial controls (circumferential slurry wall, leachate collection/treatment, groundwater collection/treatment, landfill gas collection/flaring, and final cover) have been in place for only a short period of time. Monitoring and sampling to date (first and second quarter 1996) represents data collection at the initiation of the monitoring program. The data collected is intended to provide groundwater quality and levels for post-remedial control and start-up against which future results can be compared. The discussion following in Sections 7-1 and 7-2 contains no specific comment on the overall effectiveness of the remedial controls or indication of trends relative to groundwater quality since, at this time in the monitoring program, neither may be evidenced in whole or in part.

#### 7.1 Operable Unit 1

In Operable Unit 1 refuse wells, dissolved metals were generally detected at lesser concentrations outside the slurry wall than inside. In particular, sodium and zinc were never detected at a greater concentration at any transect location in the outside paired refuse well. Transect Location Nos. 2 and 5 evidenced all metals concentrations in the refuse greater inside the wall than outside. Metals detected in the sand and gravel unit were at similar concentrations across the slurry wall. At Transect Location No. 2, iron, sodium, and zinc concentrations and zinc at Transect Location No. 4 were greater inside than outside the wall at the sand and gravel wells. In the bedrock wells, metals concentrations were generally less outside the wall than inside. At Transect Location No. 5, all metals were detected at greater concentrations inside the wall than outside in the bedrock wells.

Indicator parameters were generally detected at greater concentrations inside the wall than outside the wall for the OU1 refuse wells. At Transect Location Nos. 2 and 3, all general chemistry parameters were detected in the refuse wells at greater concentrations inside than outside the wall. In the sand and gravel unit, indicator parameters were also mostly detected at higher concentrations inside than outside the wall, especially at Transect Location Nos. 2, 3, and 5. At Transect Location No. 5, only color was detected greater

outside than inside the wall in the sand and gravel. In the bedrock wells, the concentrations of nearly all indicator parameters were greater inside than outside the wall. At Transect Location No. 5, in the bedrock, all indicator parameters were greater inside than outside the slurry wall. Where individual general chemistry parameters were evidenced greater outside the wall than inside at bedrock wells, the concentrations were similar or only slightly greater.

#### 7.2 Operable Unit 2

In Operable Unit 2 refuse wells, the levels of dissolved metals detected were similar to the levels detected in OU1 refuse wells situated outside the slurry wall. Notable detections relative to other refuse wells, of iron and sodium in GEI-10G and GEI-6G, respectively, were evidenced. In the OU2 sand and gravel wells, iron and sodium were generally elevated. Monitoring well WE-10S revealed one of the highest detections of sodium at 3,020,000 ug/l. Lead was not detected in any OU2 sand and gravel well except GEI-6S. Lead was not detected in any OU2 bedrock wells. At the upgradient bedrock monitoring location, WE-114D, copper was evidenced at the highest concentration of any OU2 monitoring well. Sodium was generally elevated in the bedrock wells but not at the upgradient location. In the upgradient bedrock well, WE-114D, the zinc concentration was greatest relative to the other bedrock wells at 68.3 ug/l. At the surface water monitoring location downstream of the Treatment Plant outfall, RR-04, metals concentrations were less than those detected at the other surface water monitoring points. Overall, iron and sodium concentrations were less in the surface water monitoring locations than any other OU2 monitoring wells.

General chemistry analysis in the OU2 refuse wells revealed elevated levels in GEI-5G and GEI-6G. Both wells can be considered the most downgradient refuse wells to Mound B. Monitoring well GEI-10G, adjacent to the Edison Landfill, revealed the highest level of surfactants of any OU2 well. In the OU2 sand and gravel wells, WE-3S had the highest concentrations of indicator parameters. Monitoring well WE-3S is immediately downgradient of the Low-Lying Area. Unique water quality in WE-10S relative to other sand and gravel wells was evidenced in the elevated levels of chloride and TDS. In the bedrock wells, fewer and lower detections of indicator parameters were evidenced relative to other OU2 wells. Sulfate was detected highest in the bedrock wells at WE-10R. At the upgradient monitoring point, WE-114D, the general chemistry parameter concentrations were generally low, especially for COD, chloride, TDS, and TOC. Indicator parameters in the Raritan River monitoring points were generally less than the OU2 monitoring wells, especially chloride, sulfate, surfactants, TDS, and TOC. Monitoring point RR-04, located downstream of the Treatment Plant outfall revealed similar or lower concentrations of indicator parameters than the other surface water monitoring points.

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## 8 HYDRAULIC MONITORING RESULTS OVERVIEW AND RECOMMENDATIONS

The hydraulic monitoring plan calls for the preparation of tables and hydrographs summarizing groundwater flow conditions at the site. Previously presented in Section 4, Table 4-1 summarizes the manual water level measurements obtained from the OU1 and OU2 monitoring wells during April, May, and June 1996. Table 8-1 provides a summary of the vertical gradients (upward or downward) at the different well cluster locations in May 1996. Appendix E provides hydrographs of continuous water level measurements of the refuse wells inside and outside the slurry wall. Each hydrograph consists of an interior and exterior refuse well at each individual Transect Location for visual assessment of intragradient conditions. Appendix F contains the individual hydrographs for each well where continuous monitoring was conducted, including the sand and gravel wells. The following Sections 8.1-8.3 include a discussion of the results of the hydraulic monitoring program. Section 8.4 includes the conclusions and recommendations for future hydraulic monitoring activities.

## 8.1 Assessment of Intragradient Conditions Within the Refuse - OU1

A review of the hydrographs in Appendix E indicates that for the most part intragradient conditions are being maintained in the refuse unit. The heads in the refuse are higher immediately outside the wall relative to the heads inside the wall indicating a tendency for groundwater to flow inward, thus minimizing the potential for contaminant migration beyond the limits of the wall. Head differences were 4 to 5 feet higher outside the wall at Transect Location No. 1 to several tenths of a foot higher outside at Transect Location No. 5. This intragradient condition was evident at all the transect locations with the exception of Transect Location No. 4 and for an approximate 2-week period (May 2-16) at Transect Location No. 2 where heads in the refuse were higher inside the wall. It is worthwhile to note that W-8G, which is located outside of the wall at Transect No. 4, contains a considerable thickness of a viscous oil, which could be affecting the transducer readings.

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#### 8.2 Assessment of Vertical Hydraulic Gradients - OU1

Table 8-1 summarizes the vertical gradients between the monitoring well clusters along the transect locations for the May 1996 event. Vertical gradients are examined between the refuse and sand/gravel wells and between the sand/gravel and bedrock wells. The May sampling event contains the most data for the sand/gravel and bedrock installations and therefore was chosen to represent a snapshot picture of conditions at the site. Upward hydraulic gradients between the bedrock and sand/gravel are observed inside the wall at the W-5S/5R location. Downward gradients were noted for the other two locations inside the wall, W-3S/3R, and W-7S/7R. During the June event upward gradients between the rock and the sand/gravel inside the wall were also observed at W-7S/7R in addition to W-5S/5R (Table 4-1).

#### 8.3 OU2 Hydraulic Monitoring

The groundwater elevation data obtained from the monitoring of the OU2 wells indicates a general horizontal flow of groundwater in a westerly direction toward the Raritan River consistent with the findings during the Remedial Investigation. Based on the May 1996 monitoring event both upward and downward gradients are characterized. Generally downward gradients prevail between the refuse and the underlying units. Upward gradients between the bedrock and the overlying sand and gravel were noted at several locations, including WE-10S/WE-10R, GEI-6S/WE-6R, GEI-7G/WE-7S and WE-7S/WE-7R. The vertical gradients for OU2 wells are indicated on Table 8-1.

#### 8.4 Conclusions and Recommendations

The results of the initiation of the hydraulic monitoring program indicate that generally intragradient conditions are being maintained within the refuse unit around the slurry wall. This intragradient condition indicates that there is little potential for contamination to migrate within the refuse beyond the slurry wall. Based on snapshot measurements of sand/gravel and bedrock wells, there does not appear to be an attainment of upward gradients at all locations.

Based on the initial evaluation of the hydraulic monitoring, it is recommended that the present program be continued at the same level and frequency of monitoring to confirm the attainment of intragradient conditions and to monitor the hydraulic relationship between the sand/gravel and the bedrock.

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#### REFERENCES

- Proposed Groundwater Monitoring Plan for the Kin-Buc Landfill Operable Unit 1 RD/RA, Wehran Engineering Corporation, Middletown, New York, December 1992.
- Final Addendum 1 to the Proposed Groundwater Monitoring Plan for the Kin-Buc Landfill Operable Unit 1 Closure Plan Re: OU2 Groundwater and Surface Water Monitoring, Wehran Engineering Corporation, Middletown, New York, August 1994.
- Draft Operations and Maintenance Manual for the Kin-Buc Landfill, Wheelabrator EOS, Inc., Pittsburgh, PA, August 1995.
- Remedial Action Report for Operable Unit 2 for the Kin-Buc Landfill Superfund Site, Blasland, Bouck & Lee, Inc., January 1996.
- Appendix C Groundwater, Surface Water, Wetlands and Biota Monitoring Plans for the Kin-Buc Landfill Operable Units 1 and 2, Wheelabrator EOS, Inc., Pittsburgh, PA, August 1995.
- Remedial Action Report Volume I Remedial Action Report, Tables, Appendices A1-A5 for the Kin-Buc Landfill Operable Unit 1, Blasland, Bouck & Lee, Inc., September 1995, Revised February 1996.
- Draft Wetland Restoration Monitoring Report, Kin-Buc Landfill, Operable Unit 2, International Technology Corporation, 1995.
- Draft Remedial Investigation Report for Kin-Buc Landfill Operable Unit 2, Wehran Engineering Corporation, Middletown, New York, October 1990.

### **TABLES**

Table 1-1

# Kin-Buc Landfill Operable Units 1 and 2 Groundwater Quality Monitoring Plan

Parameters <sup>1,2</sup>	Method
Arsenic (As) <sup>4</sup>	EPA 206.2
Barium (Ba) <sup>4</sup>	EPA 200.7
Biochemical Oxygen Demand (BOD) <sup>3,4</sup>	EPA 405.1
Cadmium (Cd) <sup>4</sup>	EPA 200.7
Chloride (Cl) <sup>3,4</sup>	EPA 325.3
Chromium (Hexavalent Cr + 6) <sup>4</sup>	EPA 218.5
Chemical Oxygen Demand (COD) <sup>3,4</sup>	EPA 410.1
Color <sup>3,4</sup>	EPA 110.2
Coliforms (total, fecal, strep)3,4	SM 908A, 909C, 910B
Copper (Cu) <sup>3,4</sup>	EPA 200.7
Cyanide (CN) <sup>4</sup>	EPA 335.2
Fluoride (F) <sup>4</sup>	EPA 340.2
Foaming Agents (MBAS) <sup>3,4</sup>	EPA 425.1
Hardness (CaC0 <sub>3</sub> ) <sup>4</sup>	EPA 130.1
Iron (Fe) <sup>3,4</sup>	EPA 200.7
Lead (Pb) <sup>3,4</sup>	EPA 239.2
Manganese (Mn) <sup>4</sup>	EPA 200.7
Mercury (Hg) <sup>4</sup>	EPA 245.1
Nitrate Nitrogen (NO <sub>3</sub> -N) <sup>3,4</sup>	EPA 352.1
Ammonium Nitrogen (NH <sub>4</sub> -N) <sup>3,4</sup>	EPA 350.2
Odor <sup>3,4</sup>	EPA 140.1
pH <sup>3,4</sup>	40 CFR 141, 143
Phenolic Compounds <sup>3,4</sup>	EPA 420.1
PP Volatile Organics (including dichlorobenzene isomers) <sup>4</sup>	EPA 624
Selenium (Se) <sup>4</sup>	EPA 270.3
Silver (Ag) <sup>4</sup>	EPA 200.7
Sodium (Na) <sup>3,4</sup>	EPA 200.7
Sulfates (SO <sub>4</sub> ) <sup>3,4</sup>	EPA 375.3
Total Dissolved Solids (TDS) <sup>3,4</sup>	EPA 160.1
Total Organic Carbon (TOC)3,4	EPA 415.1
Total Organic Halides (TOX) <sup>4</sup>	EPA 9020
Turbidity <sup>4</sup>	EPA 180.1
Zinc (Zn) <sup>3,4</sup>	EPA 200.7

#### Notes

- 1. Parameter list from NJAC 7:14A-10.12 et seq., Discharges from Sanitary Landfills.
- The initial analysis will be performed for the annual list of parameters plus PP acid/base neutrals, (EPA 625) and PP pesticides/PCBs, including gamma BHC — Lindane, DDT, metabolites, and methoxychlor (EPA 608).
- 3. Quarterly Parameters.
- 4. Annual Parameters.

Kin-Buc Landfill
Operable Unit 1
Groundwater Monitoring Well Network/Transects

Table 1-2

Transect Location No.	Screened Hydrogeologic Unit	Well Location Inside Slurry Wall	Paired Well Location Outside Slurry Wall
1	Refuse/Fill	W-1G	W-2G
	Bedrock	W-1R	W-2R
2	Refuse/Fill	W-3G	W-4G
	Sand and Gravel	W-3S	W-4S
	Bedrock	W-3R	W-4R
3	Refuse/Fill Sand and Gravel Bedrock	W-5G W-5S W-5R	W-6G W-6S W-6R
4	Refuse/Fill Sand and Gravel Bedrock	W-7G W-7S W-7R	W-8G W-8S W-8R
5	Refuse/Fill Bedrock	W-9G W-9R	W-10G W-10R

Table 1-3
Kin-Buc Landfill

# Operable Unit 2 Groundwater and Surface Water Monitoring Network

Well Location	Screened Hydrogeologic Unit			
Low-Lying Area				
GEI-10G Fill/Refuse				
WE-10S	Sand & Gravel			
WE-10R	Bedrock			
GEI-3G	Fill/Refuse			
WE-3S	Sand & Gravel			
WE-3R	Bedrock			
Mound B				
GEI-5G	Fill/Refuse			
WE-5S	Sand & Gravel			
WE-5R	Bedrock			
GEI-6G	Fill/Refuse			
GEI-6S	Sand & Gravel			
WE-6R	Bedrock			
GEI-7G	Fill/Refuse			
WE-7S	Sand & Gravel			
WE-7R	Bedrock			
Upgradient				
WE-114D	Bedrock			
Surf	ace Water			
RR-01	Raritan River			
RR-02	Raritan River			
RR-03	Raritan River			
RR-04	Raritan River			

Table 3-1
Kin-Buc Landfill Operable Unit 1
Groundwater Monitoring Results
Transect Location No. 1

Parameters	W-1G	W-2G	W-1R	W-2R
Dissolved Metals (ug/l)				
Copper	<1.3	<1.3	14.9	54.1
Iron	51700	81000	1490000	1070000
Lead	<1.5	<1.5	<1.5	<1.5
Sodium	488000	255000	1510000	970000
Zinc	162	133	9670	17500
General Chemistry (mg/l)				
pH, SU	6.71	6.31	5.22	5.20
Color, Pt-Co	300	2000	2000	2000
Fecal Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Total Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Ammonia, Nitrogen	8.09	0.735	18.3	133
Biochemical Oxygen Demand	5.0	11.7	19900	10200
Chemical Oxygen Demand	170	193	27700	24100
Chloride	1130	455	<1.0	<1.0
Nitrate	<0.04	<0.04	<0.04	<0.04
Phenol	0.031	0.024	0.304	0.488
Sulfate	453	348	2240	1460
Surfactants	0.56	0.68	0.27	1.05
Total Dissolved Solids	2220	1970	27000	16600
Total Organic Carbon	40.2	55.6	8260	7570

Table 3-1
Kin-Buc Landfill Operable Unit 1
Groundwater Monitoring Results
Transect Location No. 2

Parameters	W-3G	W-4G	W-3S	W-4S	W-3R	W-4R
Dissolved Metals (ug/l)						
Copper	<1.3	<1.3	6.8	65.2	19.1	<1.3
Iron	47800	4450	155000	76300	24500	17700
Lead	17.9	1.9	<1.5	<1.5	<1.5	<1.5
Sodium	1060000	952000	1510000	1350000	1320000	1340000
Zinc	129	122	195	115	32.2	20.5
General Chemistry (mg/l)						
pH, SU	6.96	7.40	6.69	6.55	6.50	6.56
Color, Pt-Co	1500	400	2000	2500	1000	200
Fecal Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ammonia, Nitrogen	280	167	75.7	33.9	0.244	0.166
Biochemical Oxygen Demand	108	45	156	41.7	3.7	<3.0
Chemical Oxygen Demand	1650	826	1720	611	672	179
Chloride	1450	970	2420	2600	2220	2350
Nitrate	<0.04	<0.04	<0.04	<0.04	<0.04	0.06
Phenol	0.215	0.093	0.202	0.072	0.079	0.188
Sulfate	336	26.3	198	750	40.5	40.5
Surfactants	1.89	1.56	1.24	0.81	0.90	0.56
Total Dissolved Solids	3740	2420	5970	176	3560	5490
Total Organic Carbon	242	138	442	147	60.9	8.98

Table 3-1
Kin-Buc Landfill Operable Unit 1
Groundwater Monitoring Results
Transect Location No. 3

Parameters	W-5G	W-6G	W-5S	W-6S	W-5R	W-6R
Dissolved Metals (ug/l)						
Copper	3.6	11.4	<1.3	4.6	1.3	1.5
iron	37300	49600	46.4	7680	5500	38800
Lead	<1.5	<1.5	<1.5	<1.5	1.5	<1.5
Sodium	181000	41400	3910	2110000	2810000	2310000
Zinc	232	36.4	20.6	25.6	17.1	32
General Chemistry (mg/l)						
pH, SU	6.97	6.43	10.55	7.01	6.95	6.66
Color, Pt-Co	300	300	60	400	1000	200
Fecal Coliforms, colonies/100ml	N/A	N/A	N/A	N/A	<1.0	N/A
Fecal Strep, colonies/100ml	N/A	N/A	N/A	N/A	<1.0	N/A
Total Coliforms, colonies/100ml	N/A	N/A	N/A	N/A	50000	N/A
Ammonia, Nitrogen	106	65.1	22.6	10.2	1.62	0.308
Biochemical Oxygen Demand	25.3	5.3	30.6	19.5	15	11.3
Chemical Oxygen Demand	267	97.8	303	297	276	331
Chloride	207	36.8	3420	3570	4370	3260
Nitrate	<0.04	<0.04	0.06	0.06	0.04	<0.04
Phenol	0.003	<0.0035	0.104	0.035	0.127	<0.0035
Sulfate	159	113	65.8	22.1	84.2	307
Surfactants	1.16	0.88	0.85	0.53	2.05	2.50
Total Dissolved Solids	1160	305	7830	6890	8350	9580
Total Organic Carbon	64.0	21.5	31.4	49.2	38.9	27.4

Table 3-1
Kin-Buc Landfill Operable Unit 1
Groundwater Monitoring Results
Transect Location No. 4

Parameters	W-7G	W-8G	W-7S	W-8S	W-7R	W-8R
Dissolved Metals (ug/l)						
Copper	8.4	<1.3	<1.3	<1.3	<1.3	2.5
Iron	36300	41000	3110	3910	16400	8230
Lead	28	3.1	<1.5	<1.5	<1.5	<1.5
Sodium	778000	441000	2410000	2880000	3180000	2960000
Zinc	176	174	25.1	10.4	127	113
General Chemistry (mg/l)						
pH, SU	6.87	6.68	7.38	6.94	6.95	6.75
Color, Pt-Co	400	1500	200	200	200	300
Fecal Coliforms, colonies/100ml	N/A	N/A	N/A	N/A	N/A	N/A
Fecal Strep, colonies/100ml	N/A	N/A	N/A	N/A	N/A	N/A
Total Coliforms, colonies/100ml	N/A	N/A	N/A	N/A	N/A	N/A
Ammonia, Nitrogen	297	199	29.1	5.19	6.76	6.01
Biochemical Oxygen Demand	84.7	38.0	8.3	<3.0	7.3	7.5
Chemical Oxygen Demand	1340	871	355	376	324	299
Chloride	1080	654	3230	4090	4700	4570
Nitrate	<0.04	<0.04	0.06	0.06	0.13	0.06
Phenol	0.279	0.325	<0.0035	<0.0035	<0.0035	<0.0035
Sulfate	366	56.6	159	237	490	384
Surfactants	1.23	1.93	0.88	0.43	0.23	0.72
Total Dissolved Solids	3800	1890	949	8990	10300	9550
Total Organic Carbon	252	204	41.0	26.1	21.7	26.4

# Table 3-1 Kin-Buc Landfill Operable Unit 1 Groundwater Monitoring Results Transect Location No. 5

Parameters	W-9G	W-10G	W-9R	W-10R
Dissolved Metals (ug/l)				
Copper	9.2	<1.3	32.2	<1.3
Iron	70300	17100	27200	5250
Lead	<1.5	<1.5	<1.5	2.6
Sodium	35800	13100	20100	15300
Zinc	163	82	62.8	29.9
General Chemistry (mg/l)				1
pH, SU	5.40	6.73	5.98	6.60
Color, Pt-Co	200	300	300	100
Fecal Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Total Coliforms, colonies/100ml	<1.0	<1.0	<1.0	<1.0
Ammonia, Nitrogen	<0.05	<0.05	0.11	<0.05
Biochemical Oxygen Demand	10.5	<3.0	<3.0	<3.0
Chemical Oxygen Demand	52.6	18.7	<3.0	<3.0
Chloride	350	40.2	130	26.1
Nitrate	<0.04	<0.04	<0.04	<0.04
Phenol	0.031	0.011	0.004	0.004
Sulfate	311	155	380	132
Surfactants	0.33	0.12	0.19	0.76
Total Dissolved Solids	1130	283	489	184
Total Organic Carbon	4.98	<1.0	<1.0	<1.0

Table 4 - 1
KinBuc Landfill Operable Units 1 and 2
Manually Recorded Water Level Elevations

	TOC	TOC Ref	April TOC	April	May TOC	May	June TOC	June
Well ID	Bottom	Elevation	Static	Elevation	Static	Elevation	Static	Elevation
OU1								
W-1G	20.5	30.55	15.18	15.37	14.79	15.76	11.78	18.77
W-1R	35.34	30.57	NA	NA	18.62	11.95	18.3	12.27
W-2G	20.83	30.58	12.46	18.12	14.95	15.63	12.86	17.72
W-2R	35.33	30.62	NA	NA	22.4	8.22	22.06	8.56
W-3G	19.07	20.83	9.63	11.20	9.79	11.04	9.93	10.9
W-3S	31.48	20.74	19.07	1.67	19.93	0.81	NA NA	NA NA
W-3R	53.84	20.54	NA	NA	20.05	0.49	19.36	1.18
W-4G	17.57	20.13	8.91	11.22	9.41	10.72	9.36	10.77
W-4S	31.58	19.68	18.99	0.69	18.8	0.88	18.64	1.04
W-4R	54.92	19.62	NA	NA	19.55	0.07	19.41	0.21
W-5G	24.36	24.46	12.56	11.90	12.9	11.56	13.1	11.36
W-5S	30.33	24.43	22.57	1.86	23.08	1.35	22.94	1.49
W-5R	41.64	24.44	NA	NA	22.98	1.46	22.32	2.12
W-6G	23.99	24.23	11.59	12.64	12.15	12.08	13.02	11,21
W-6S	38.49	24.21	22.21	2.00	22.7	1.51	22.63	1.58
W-6R	50.43	24.27	NA	NA	22.8	1.47	22.23	2.04
W-7G	20.63	18.37	6.98	11.39	7.28	11.09	7.48	10.89
W-7S	29.34	11.71	9.06	2.65	9.67	2.04	9.7	2.01
W-7R	45.13	11.14	NA	NA	9.52	1.62	8.78	2.36
W-8G	20.38	18.03	9.74	8.29	10.48	7.55	10.61	7.42
W-8S	28.86	10.92	8.41	2.51	8.68	2.24	9.14	1.78
W-8R	42.91	10.56	NA	NA	8.94	1.62	8.68	1.88
W-9G	21.93	27.04	19.03	8.01	19.34	7.7	18.12	8.92
W-9R	39.05	27.27	NA.	NA	21.69	5.58	20.53	6.74
W-10G	22.56	27.06	18.98	8.08	19.13	7.93	16.17	10.89
W-10R	34.01	26.99	NA	NA	19.61	7.38	19.27	7.72
OU2								
GEI-10G	13.91	13.65	NA	NA	1.54	12.11	1.12	12.53
WE-10S	29.57	14.99	NA	NA	13.4	1.59	12.1	2.89
WE-10R	41.74	13.96	NA	NA	12.35	1.61	11.85	2.11
GEI-3G	13.54	16.73	NA	NA	4.78	11.95	5.54	11.19
WE-3S	25.67	15.12	NA	NA	13.9	1.22	13.68	1.44
WE-3R	46.51	14.99	NA	NA	13.83	1.16	13.68	1.31
GEI-5G	14.60	16.08	NA	NA	8.98	7.1	9.33	6.75
WE-5S	25.84	15.04	NA	NA	13.95	1.09	14.2	0.84
WE-5R	49.64	15.31	NA	NA	14.25	1.06	14.32	0.99
GEI-6G	14.97	19.76	NA	NA	11.68	8.08	11.78	7.98
GEI-6S	43.67	20.99	NA	NA	20.28	0.71	24.8	-3.81
WE-6R	47.12	19.62	NA	NA	18.49	1.13	19.29	0.33
GEI-7G	13.74	17.23	NA	NA	DRY	DRY	12.97	4.26
WE-7S	30.07	15.86	NA	. NA	15.2	0.66	15.62	0.24
WE-7R	72.88	15.93	NA	NA	15.18	0.75	16.4	-0.47
WE-114D	34.81	20.68	NA	NA	12.79	7.89	NA	NA

NA - Indicates water level meter malfunction during April, OU1 "Trolls" provide data.

# Table 5-1 Kin-Buc Landfill Operable Unit 2 Groundwater Monitoring Results Refuse Wells

Parameters	GEI-3G	GEI-5G	GEI-6G	GEI-10G
Dissolved Metals (ug/l)				
Copper	3.8	4.7	6.1	<3.0
Iron	46100	35600	9550	72500
Lead	<1.5	25.9	17.2	<1.5
Sodium	40300	401000	1010000	96800
Zinc	122	65.7	214	151
General Chemistry (mg/l)				
pH, SU	6.69	6.55	6.93	6.89
Color, Pt-Co	1500	1500	1500	300
Fecal Coliforms, colonies/100ml	<1.0	<1.0	10000	N/A
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	N/A
Total Coliforms, colonies/100ml	<1.0	<1.0	N/A	N/A
Ammonia, Nitrogen	28.5	218	538	75.4
Biochemical Oxygen Demand	<3.0	43.3	25.3	127
Chemical Oxygen Demand	108	634	1100	141
Chloride	16.4	2940	910	136
Nitrate	0.08	<0.25	1.32	<0.04
Phenol	<0.0035	<0.0035	<0.25	<0.0035
Sulfate	273	81.0	63.7	888
Surfactants	0.12	0.54	0.35	0.57
Total Dissolved Solids	520	1780	2930	398
Total Organic Carbon	11.6	113	126	34.1

# Table 5-1 Kin-Buc Landfill Operable Unit 2 Groundwater Monitoring Results Sand/Gravel Wells

Parameters	WE-3S	WE-5S	GEI-6S	WE-7S	WE-10S
Dissolved Metals (ug/l)					
Соррег	6	6.4	7.1	<1.3	<1.3
iron	157000	70700	598	38700	17600
Lead	<1.5	<1.5	4.4	<1.5	<1.5
Sodium	1910000	1790000	103000	1160000	3020000
Zinc	151	36.7	150	152	22.5
General Chemistry (mg/l)					
pH, SU	6.11	6.57	7.28	6.73	7.07
Color, Pt-Co	2500	1500	300	1500	200
Fecal Coliforms, colonies/100ml	<1.0	8000	15000	3200	N/A
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	<1.0	N/A
Total Coliforms, colonies/100ml	16800	N/A	N/A	N/A	N/A
Ammonia, Nitrogen	21.3	9.42	3.14	36.7	3.18
Biochemical Oxygen Demand	60	20.7	22.5	<3.0	<3.0
Chemical Oxygen Demand	2520	433	112	597	368
Chloride	95.4	2100	59.0	1280	4200
Nitrate	<0.04	<0.04	6.65	0.12	0.07
Phenol	0.191	<0.0035	<0.0035	<0.0035	<0.0035
Sulfate	181	171	230	710	435
Surfactants	0.83	0.51	<0.05	0.43	0.88
Total Dissolved Solids	8870	5880	923	3470	7140
Total Organic Carbon	818	128	9.12	100	20.9

Table 5-1
Kin-Buc Landfill Operable Unit 2
Groundwater Monitoring Results
Bedrock Wells

Parameters	WE-3R	WE-5R	WE-6R	WE-7R	WE-10R	WE-114D
Dissolved Metals (ug/l)						
Copper	2.8	5.3	3.9	2.1	<1.3	7.4
Iron	19900	18900	20300	20400	19600	23100
Lead	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Sodium	2920000	2450000	2120000	1300000	3160000	28600
Zinc	18.7	34.8	24.6	27.4	28.2	68.3
General Chemistry (mg/l)						
pH, SU	6.59	6.49	6.66	6.52	7.07	6.63
Color, Pt-Co	1500	1000	300	200	200	300
Fecal Coliforms, colonies/100ml	<1.0	<1.0	5000	<1.0	N/A	<1.0
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0	<1.0	N/A	<1.0
Total Coliforms, colonies/100ml	<1.0	<1.0	N/A	<1.0	N/A	300
Ammonia, Nitrogen	0.696	0.671	10.5	0.316	1.25	<0.05
Biochemical Oxygen Demand	<3.0	11.0	<3.0	<3.0	<3.0	4.8
Chemical Oxygen Demand	270	193	249	127	380	26.3
Chloride	3700	3930	3380	4130	4230	68.5
Nitrate	0.09	0.08	<0.04	0.05	0.04	0.09
Phenol	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035
Sulfate	303	356	230	137	405	293
Surfactants	0.48	<0.05	0.38	0.22	0.65	<0.05
Total Dissolved Solids	5590	10300	8640	6020	33	563
Total Organic Carbon	15.6	6.94	10.4	<1.0	20.5	<1.0

# Table 5-2 Kin-Buc Landfill Operable Unit 2 Surface Water Monitoring Results

Parameters	RR-01	RR-02	RR-03	RR-04
Metals (ug/l)				
Copper	4	6.1	<1.3	<1.3
Iron	2670	5070	1400	930
Lead	7.3	15.2	6.8	1.8
Sodium	25400	19100	21100	18600
Zinc	54.6	78.4	82.9	29.3
General Chemistry (mg/l)				
pH, SU	8.09	8.04	7.96	7.93
Color, Pt-Co	300	200	200	200
Ammonia, Nitrogen	<0.05	<0.05	<0.05	<0.05
Biochemical Oxygen Demand	4.7	<3.0	3.1	<3.0
Chemical Oxygen Demand	36.8	43.5	<3.0	5.1
Chloride	35.6	30.2	31.3	30.5
Nitrate	1.21	1.13	1.15	1.15
Phenol	<0.0035	<0.0035	<0.0035	<0.0035
Sulfate	32.8	19.9	23.6	20.1
Surfactants	0.18	0.11	0.15	0.25
Total Dissolved Solids	175	161	146	150
Total Organic Carbon	<1.0	<1.0	<1.0	<1.0

Table 6-1

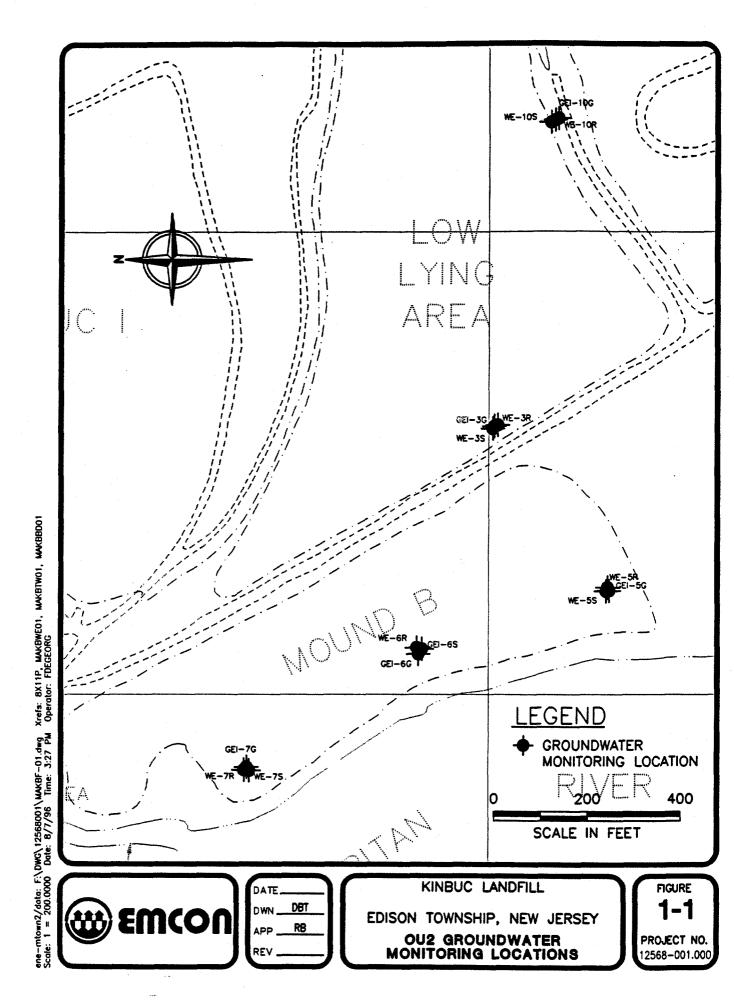
## Kin-Buc Landfill Operable Unit 1 Gas Monitoring Well Network/Results

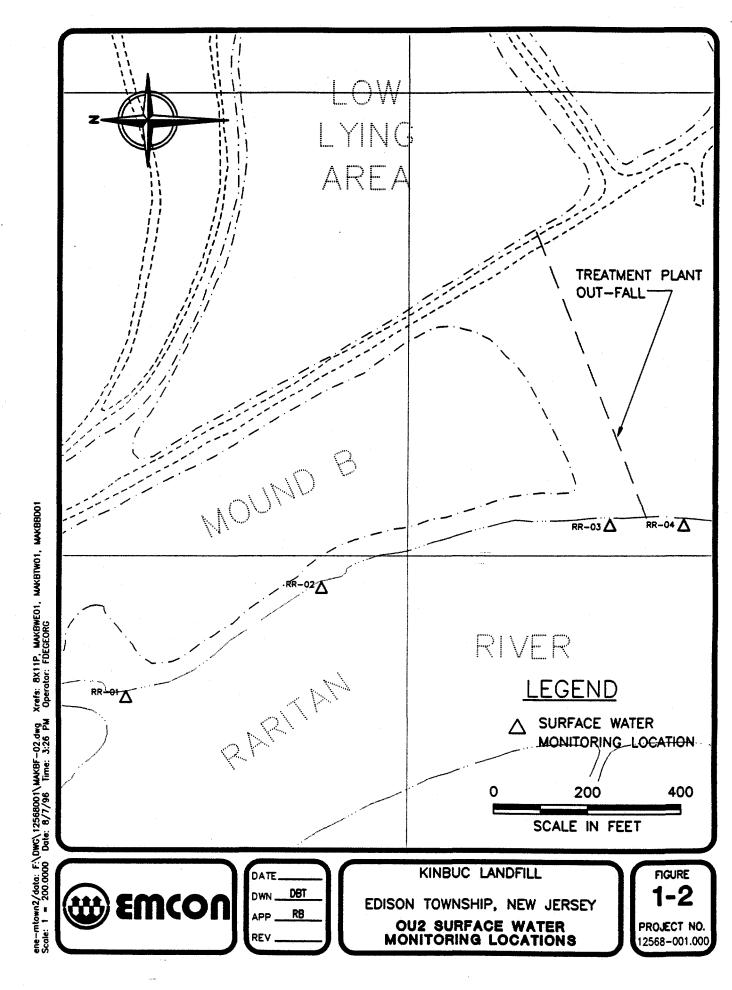
	Monitoring Result			
Well (Network) Location	% LEL	% GAS		
GMW-01	<b>0</b> . · .	0		
GMW-02	0	0		
GMW-03	0	0		
GMW-04	0	0		
GMW-05	0	0		
GMW-06	0	0		
Operational Flare Inlet	NA	53		

Table 8-1
KinBuc Landfill Operable Units 1 and 2
Vertical Gradients Based on May 1996
Groundwater Elevation Measurements

Well		Inside/Outside
Designation	Gradient	Slurry Wall
OU1	1	
W-1G / W-1R	Down	Inside
W-3G / W-3S	Down	Inside
W-3S / W-3R	Down	Inside
W-5G / W-5S	Down	Inside
W-5S / W-5R	Up	Inside
W-7G / W-7S	Down	Inside
W-7S / W-7R	Down	Inside
W-9G / W-9R	Down	Inside
W-6G / W-6S	Down	Outside
W-6S / W-6R	Down	Outside
W-2G / W-2R	Down	Outside
W-4G / W-4S	Down	Outside
W-4S / W-4R	Down	Outside
W-8G / W-8S	Down	Outside
W-8S / W-8R	Down	Outside
W-10G / W-10R	Down	Outside
OU2		
GEI-10G / WE-10S	Down	
WE-10S / WE-10R	Up	
GEI-3G / WE-3S	Down	
WE-3S / WE-3R	Down	
GEI-5G / WE-5S	Down	
WE-5S / WE-5R	Down	
GEI-6G / GEI-6S	Down	
GEI-6S / WE-6R	Up	
GEI-7G / WE-7S	Up	
WE-7S / WE-7R	Up	

## **FIGURES**





## **DRAWING**

O 150 300
SCALE IN FEET

GAS MIGRATION WELL #6-

REV DATE DESCRIPTION DWN BY DES BY CHK BY APP BY

DATE OF ISSUE DWN BY SDT CHK BY APP BY DES BY RB APP BY



KIN-BUC LANDFILL

EDISON TOWNSHIP, NEW JERSEY

SECOND DOMESTICE 1996

SOURCE: BASEMAP DATA TAKEN FROM PLAN SHEET 10A OF MAP ENTITLED

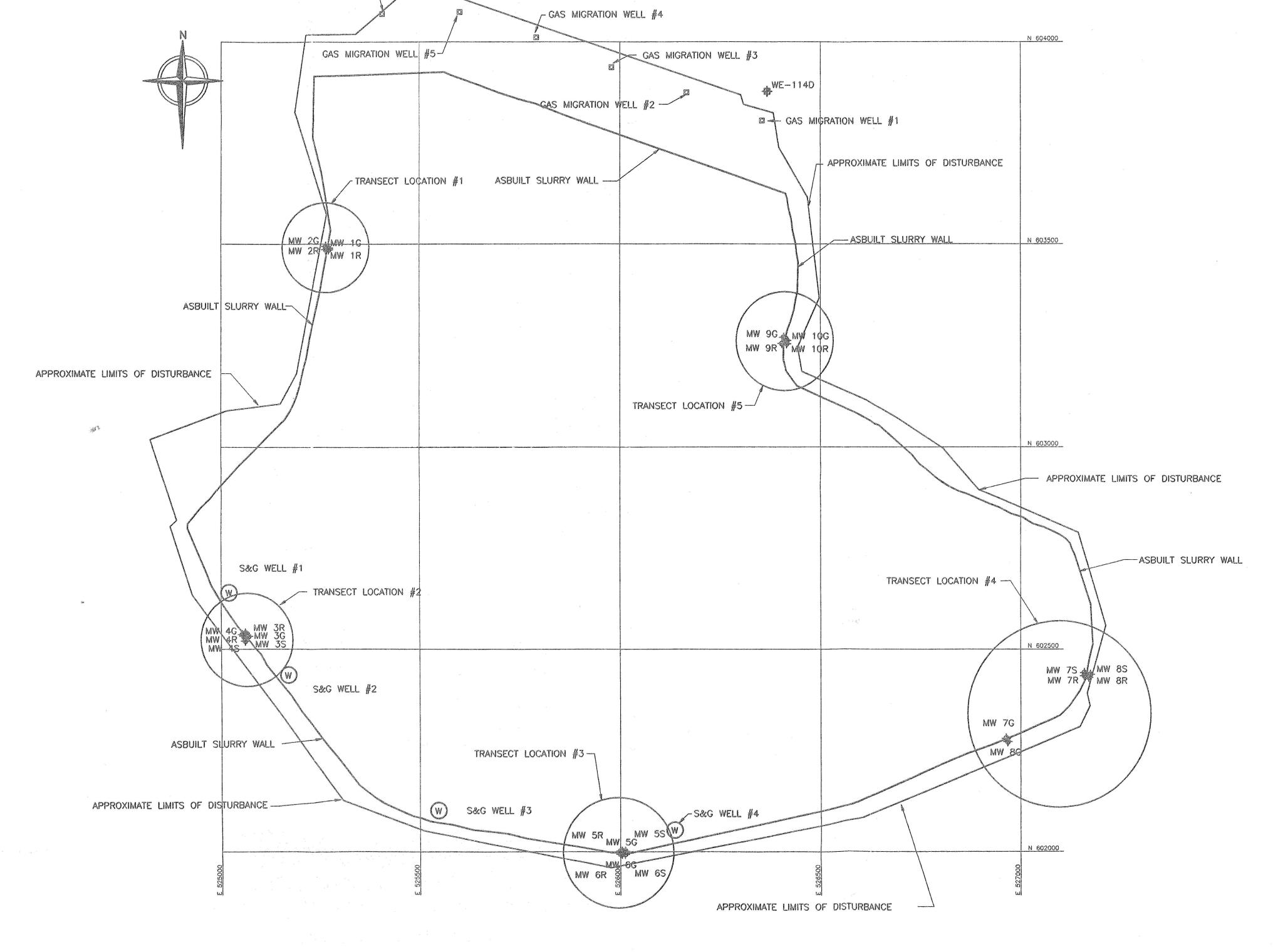
CONTI ENVIRONMENTAL INC. DATED JULY 17, 1995.

"KINBUC LANDFILL FINAL WELL LOCATION PLAN" PREPARED BY

OPERABLE UNIT 1 MONITORING NETWORK

PROJECT NO. 12568-001.000

DRAWING NO.



# <u>LEGEND</u>

- NEW MONITORING WELLS
- W NEW SAND & GRAVEL PUMPING WELLS
- NEW GAS MIGRATION WELLS
- OU2 UPGRADIENT MONITORING WELL
- (APPROXIMATE LOCATION)



# nytest environment environment of the state of the state

box 1518 = 60 seaview blvd., port washington, ny 11050 = (516) 625-5500 = fax (516) 625-1274

June 27, 1996

Emcon 1433 North Market Blvd., Suite 2 Sacramento, CA 95833

Attn: Susan Hopper A/P Dept.

Ref : Kin-Buc LF 12568001000, OFF71-37-37.37.37

P.O. #: 3700053

Nytest Environmental, Inc., is pleased to submit our Project Number 9522307 for Login Number 27538, SDG No. OU1A, on your sample(s) received 05/14/96.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Mike Shmookler, Ph.D.,

Laboratory Operations Manager

Nytest Environmental, Inc.

Me have Showood

Report to: EMCON

Corporate Crossroads Park

1 International Blvd., Suite 700

Mahwah, NJ 07495 Attn: Rich Calagero

Encl:

Shipped Via:

Driver/Messenger

NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled, information contained herein is not to be used for reproduction except by special permission, in the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

Chain of Custody Record page #: 2 of 2

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**Chain of Custody Record** 

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## NYTEST ENVIRONMENTAL Inc.

SDG: OU1A

LABORATORY	SAMPLE	TYPE OF
NUMBER	IDENTIFICATION	SAMPLE
2753801 2753802 2753803 2753804 2753806 2753806 2753807 2753808 2753809 2753810 2753811 2753812 2753813 2753814 2753815 2753816 2753817	FB-01 W-2G W-1G W-4G W-9G W-9G W-10G W-9R W-10R W-1R W-2R W-1R W-2R W-4S DUP W-4R W-3R W-3G W-3GMS W-3GMSD	Water
2753818	W-3S	Water
2753819	W-5R	Water

## MYTEST ENVIRONMENTAL INC.

## INTERNAL CHAIN OF CUSTODY

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### LABORATORY DELIVERABLES

Check if Complete Cover page, Title page listing Lab Certifications 1. facility name & address, & date of report Table of Contents Summary sheets listing analytical results for 3. all targeted and non-targeted compounds Summary Table cross-referencing field ID #'s 4. vs. Lab ID #'s Document bound, paginated and legible 5. 6. Chain of Custody 7. Methodology Summary Laboratory Chronicle and Holding Time check 8. Results submitted on a dry weight basis (if 9. applicable) 10. Method Detection Limits Lab certified by NJDEPE for parameters or appropriate 11. category of parameters or a member of the USEPA CLP 12. Non-Conformance Summary 6/28/96 Mula 18h al Laboratory Manager or Environmental Date Consultant's Signature

### METAL ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORVAT

		No	Yes
1.	Calibration Summary Meet Criteria		7
2.	ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria	· ·	7
3.	Serial Dilution Summary Submitted (if applicable) / Meet Criteria		<u>`</u>
4.	Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria	-	<u>\</u>
5.	Blank Contamination - If yes, list compounds concentrations in each blank:	<u>\</u>	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)	2	
7.	Extraction Holding Time Met  If not met, list number of days exceeded for each sample:		
	Analysis Holding Time Met		7
	If not met, list number of days exceeded for each sample:		
lddit	ional Comments:		
Labor	ratory Manager: Michael amale Date: 6/2	919E	

## Laboratory Chronicle

Client Name: Emcon Date Received: 05/14/96

Sample ID: As per chain of custody

Inorganics: Digested: 05/17/96, 05/20/96 1. Metals\_ Analyzed: 05/20/96, 05/21/96, 05/23/96 2. Metals\_ 06/14/96 3. Phenol\_ Ammonia Nitrogen: 05/17/96 Other Analysis: BOD: 05/15/96, 05/20/96 Chloride: 06/04/96 COD: 05/20/96 Color: 05/16/96 Fecal Coliforms, Fecal Strep, Total Coliforms: 05/15/96 Sulfate: 05/30/96 TDS: 05/21/96, 05/24/96 TOC: 06/10/96 Surfactants: 05/14/96 Nitrate: 05/21/96 Section Supervisor Review & Approval\_

Dates are included for re-extractions and reanalysis.

Quality Control Supervisor .

Review & Approval Michael Amoll

Log In No.: 27538

## CASE NARRATIVE METALS

Login	No:	27538		SDG	No:	OU1A

#### HOLDING TIMES

All samples associated with this SDG/LOGIN were prepared and analyzed within the specified holding time.

#### **CALIBRATIONS**

All ICV and CCV standards meet QC criteria.

The percent recovery of all components in the CRDL standard recovered within NEI control limits of  $\pm$  50%. Note that CLP SOW ILM03.0 does not specify control limits for the CRDL standard.

#### BLANKS

All preparation blanks and calibration blanks associated with these analyses meet QC criteria.

#### MATRIX SPIKES

Sample <u>W-3G</u> was utilized as the matrix spike sample for these analyses.

All matrix spike recoveries met the 75-125\* recovery criteria, with the exception of Zn. A post-digestion spike was performed for the affected analytes and is reported on Form 5B. Note that a post-digestion spike is not required for silver.

The appropriate reporting qualifiers have been applied to the Form 1 results as required.

### <u>DUPLICATES</u>

Sample  $\underline{W-3G}$  was utilized as the duplicate sample for these analyses.

All Relative Percent Differences (RPDs) met QC criteria, with the exception of <a href="Pb">Pb</a>. The appropriate reporting qualifiers have been applied to the Form 1 results as required.

Note that all RPDs of 200% are due to one analyte being reported above the Instrument Detection Limit (IDL) and one result below the IDL.

### LABORATORY CONTROL SAMPLE (LCS)

The percent recovery of all components in the LCS met QC criteria.

### SERIAL DILUTION

A serial dilution was performed on sample <u>W-3G</u>. All percent differences (%D) were within the  $\pm$  10% acceptance limits, with the exception of <u>Na,Zn</u>, indicating a potential interference on sample quantitation from the sample matrix.

### SAMPLES

All samples were analyzed in accordance with the requirements of the methods described in SW-846 Method 6010A.

No further analytical problems were encountered.

### SPECIAL PROJECT NOTES

None.

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.

Michaelhnoul

Michael Shmookler, Ph.D. Laboratory Operations Manager

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REF 3	REF 5
BNA, Pesticides/PCB's Extraction		3510/3520	<del></del>	
AA/ICP Sample Preparation	200.7	•		
Furnace Sample Preparation	200.0			
Hercury Sample Preparation	245.1			
Hoxavalent Chromium Sample Preparation	218.5			
Clren-Up		3610/3620/3630	/	
		3640/3660		
Organochlorine Pesticide and PCB's		•		
by Gas Chromatography			608	505
Herilcides by Gas Chromatography			362	515.1
Purgeable Organics by GC/KS			624	524.2
Base/Neutral, saids by CC/MS			625	525
2,3,7,8-TCDD by GC/HS			613/625	
BTEX			602	502.2
PDB/DBCP by Microextraction		•		504.1
NON-AQUEOUS NETHODOLOGIES:				
BMA, Pesticides/PCB's Extraction		3550		
AA/ICP Sample Preparation		3050		
Purnace Sample Preparation		3020/3030/3050		
Mercury Sample Preparation		7471		
Clean-Up		3610/3620/3630/		
•		3640/3660		
GC, Gas Chromatography/Mass Spectrometry:				
Purgeable Organics		8240/8021		
Base/Neutral and Acid Extractables		8270		•
Organophosphorus Pesticides		8140		
Organochlorine Pesticide and PCB's				
by Gas Chromatography		0808		
BTRI		8020		
Halogenated Purgeable Organics		8010		

INDUCTIVELY COUPLED PLA	SMA (ICP):	REFERENCE 1	REFERENCE 2
Aluminum		200.7	6010
Antimony		200.7	6010
Barium		200.7	6010
Beryllium	•	200.7	6010
Cadaina		200.7	6010
Calcium		200.7	6010
Chronium		200.7	6010
Cobalt :		200.7	5010
Copper .		200.7	6010
Iron		200.7	6010
Load		200.7	6010
Nagnesius		200.7	6010
<b>Manganese</b>		200.7	6010
Holybdenum		200.7	6010
Nickel	•	200.7	6010
Potassium		200.7	6010
Silver		200.7	6010
Sodium		200.7	6010
Tin		200.7	6010
Titanium		200.7	6010
Vanadium		200.7	6010
Sinc		200.7	6010
FURNACE AA:			
Antimony		204.1	7041
Arsenic		206.2	7060
Lead		239.2	7421
Selenium		270.2	7740
Thallium		279.2	7841
Pin		282.2	
Vanadium		286.2	7911
Horcury		245.1	7470/7471
ICAP:			
Priority Pollutants		200.7	6010/7060/ 7470/7740
TAL Metals		200.7	6010/7060/
			7470/7740
RCRA Hetals		000.7	6010/7060/ 0 1 3470/7740

ADDITIONAL INORGANIC PARAMETERS:	REFERENCE 1	REFERENCE 2
Siochemical Oxygen Demand	405.1	
Bronide	320.1	
Color	110.2	
Conductance	120.1	
Conductance	200,0	9050
Odor	140.1	
pil	150.1	
pf		9045/9040/904
708	160.1	
TSS	160.2	
78	160.3	
Hardness :	130.1	
Temperature	170.1	•
Turbidity	180.1	
Acidity	305.1	
Alkalinity	310.1	
Amonia	350.2/350.3	
Chloride Chloride	325.3	0000
	220.0	9252
Residual Chlorine	330.2	,
COD	410.3/410.4	0010/0010
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Greane		9070/9071
Pluoride	340.2	
	351.2	
MC2/MC3	353.2	9200
0.0	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
ilica	370.1	
dulfate	375.2/375.4	9038
ulfide	376.1	9030
urfactants	425.1	
· ·	415.1	9060
TOX .		9020
ISCELLAMECUS AMALYSIS:		
xtraction Procedure Toxicity		1310
gnitability		1010
prrosivity		1110
eactivity		Chapter 8.3
aint Filter Liquid Test		9095
oxicity Characteristic Leaching		
Procedure (TCLP)	000014	(REF 4)
ation Exchange Capacity of Soils	000014	9080

	reference (
Total Coliform	909A
Pecal Coliform	9096
Pecal Streptococcus Coliform	910B
Standard Plate Count	907
Sexevalent Chromium	3128
Carbonaceous BOD	507

#### METHODOLOGY S'JMMARY

#### REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Waste
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Edition
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameters for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 1980

# nytest environmental...

#### Method Qualifiers for Iporganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

- \*C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IPL). If the analyte was analyzed for but not detected, a "U" must be entered.
- \* Q qualifier -- Specified entries and their meanings are as follows:
  - E The reported value is estimated because of the presence of interference.
  - M Duplicate precision not met ( CV > 20% ).
  - N Spiked sample recovery not within control limits.
  - S The reported value was determined by Method of Standard Addition (MSA).
  - W Post-digestion spike for Furnace AA analysis is out of control limits (85 115%), while sample absorbance is less than 50% of spike absorbance.
  - \* Duplicate analysis not within control limits.
  - + Correlation Coefficient for the MSA is less than 0.995.

    Entering "S", "W" or "+" is mutually exclusive.
- \* M (Method) qualifier enter:
  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "CV" for Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - "NR" if the analyte is not required to be analyzed.

## METALS DATA

## INORGANICS ANALYSIS DATA SHEET

b Name: NYT	EST_ENV_INC_		Contract: 9	622307	FB-01
b Code: NYT	EST Log	in No.: 27	538_	QC Report	No.OU1A
vel (low/hi	water): WATE gh) : LOW s :0.				le ID: 753801 eived: 05/14/96
c	oncentration	Units (ug	/L or mg/kg dr	y weight):	: UG/L_
	CAS No.	Analyte	Concentration	C Q	M
	7440-50-8	Copper	1.3		P
	7439-89-6	Iron	10.8		P
	7439-92-1	Lead	1.5		P_
	7440-23-5 7440-66-6	Sodium  Zinc	511		P_P
	7440-00-0	21110	17.5		-
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Note: A "U not detect	" in the "C" ed in this s	(Concentrample; "B"	ation) column :	indicates greater	ectrophotometric the analyte was than Instrument ot Required.
			<u> </u>	· · · · · · · · · · · · · · · · · · ·	

#### INORGANICS ANALYSIS DATA SHEET

Lab Name: NYTEST_EN	v_inc	Contract: 9	622307	W-2G
Lab Code: NYTEST	Login No.: 27	538_	QC Report	No.OU1A
Matrix (soil/water) Level (low/high) Percent Solids :				e ID: 753802 ived: 05/14/96
Concent	ration Units (ug	/L or mg/kg dry	y weight):	UG/L_
CAS	No. Analyte	Concentration	C Q	4
7439 7440 7440	this sample; "B" but less than r	<pre>ation) column i = Sample value eporting limit;</pre>	U _* I _E _ I _EN _ I	the analyte was than Instrument of Required.

## INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

evel (low/high) : LOW Date Received: 05/14/9	Lab Name: NYTEST_ENV_I	NC	Contract: 9	622307		W-1G
Date Received: 05/14/9  Cercent Solids:0.0  Concentration Units (ug/L or mg/kg dry weight): UG/L_  CAS No.	ab Code: NYTEST	Login No.: 27	538_	QC Repo	rt No.	OU1A
CAS No. Analyte Concentration C Q M  7440-50-8 Copper	Level (low/high) : L	OW				
7440-50-8   Copper	Concentrat	ion Units (ug	/L or mg/kg dry	y weight	): UG/1	<b>L</b>
7439-89-6   Iron	CAS No.	Analyte	Concentration	C Q	M	
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. Comments:	CODES: P: ICP; F: GFAA Note: A "U" in the not detected in this Detection Limit, bu	Tron  I Lead  Sodium  Zinc  CV: Cold  (Concentr  s sample; "B"	Vapor; AS: Autation) column = Sample value	tomated Sindicates	Spectros the a	analyte was Instrument

## INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

500216

Tab Wawas Num	POM PWY TWO		Contract	£22207	W-4G
Lab Name: NYT.	POI_FWA_TWC_		Contract: 9	02230/	
Lab Code: NYT	EST Log	in No.: 27	538_	QC Report	No.OU1A
Matrix (soil/ Level (low/hic Percent Solids	gh) : LOW			Lab Sampl Date Rece	e ID: 753804 ived: 05/14/96
			·		
Co	oncentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q	м
	7440-50-8	Copper			P_
	7439-89-6	Iron	4450		P_
	7439-92-1 7440-23-5	Sodium	952000		P_ P
	7440-25-5	Zinc	122		P-
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CODES :	1	1		_	]
	F : GFAA:	CV: Cold V	Vapor: AS: Aut	tomated Sp	ectrophotometric
Note: A "U'	' in the "C"	(Concentra	ation) column i	indicates	the analyte was
not detecte	ed in this sa	ample; "B"	= Sample value	e greater	than Instrument
	Limit, but le	ess than re	eporting limit;	"NR" = N	ot Required.
Comments:	. አጥ አ ፣ስ <b>♡</b> ኮ	TTIITTON			
H-4GNA		TPO T TOW			
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## INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

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ab Name: NYTH	est_env_inc_	···	Contract: 9	622307	W-9	)G
ab Code: NYTE	EST Log	in No.: 27	538_	QC Repo	ort No.OU1A_	
atrix (soil/w evel (low/hig ercent Solids	(h) : LOW				ple ID: 753 eceived: 05/	
Co	ncentration	Units (ug	/L or mg/kg dry	y weight	:): UG/L_	
	CAS No.	Analyte	Concentration	c Q	м	
	7440-50-8	Copper	9.2	B -	- P	
	7439-89-6	Iron	70300		P	
	7439-92-1	Lead	1.5	บ*_	P	
	7440-23-5	Sodium_	35800		_ P_	
	7440-66-6	Zinc	163	_ EN_	_ P_	
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CODES :						
P: ICP;	F : GFAA;	CV: Cold	Vapor; AS: Au	tomated	Spectrophot	:ometri
			ation) column :			
not detecte	ed in this s	ample; "B"	= Sample value	e greate	er than Inst	rument:
	imit, but 1	ess than r	eporting limit	; "NR" =	Not Requir	ed.
omments:						
W-9G						
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#### INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

Lab Name: NYT	EST_ENV_INC_		Contract: 9	622307	W-10G
Lab Code: NYT	EST Log	in No.: 27	538_	QC Report	No.OU1A
Matrix (soil/ Level (low/hic Percent Solids	gh) : LOW				e ID: 753806 ived: 05/14/96
Co	oncentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q I	<u>.</u>
	7440-50-8	Copper	1.3		P_
	7439-89-6 7439-92-1	Iron	17100		P_  P
	7440-23-5	Sodium	13100		P_
	7440-66-6	Zinc	82.0	EN	P_
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				-	
CODES :	1	1	I	l l l	
P: ICP;	F : GFAA;	CV: Cold V	Vapor; AS: Aut	tomated Spe	ectrophotometric
not detecte  Detection I	ed in this salinit but le	(Concentra ample; "B" ess than re	= Sample value eporting limit	indicates to greater to "NR" = No	the analyte was than Instrument
Comments: W-10G					
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#### INORGANICS ANALYSIS DATA SHEET

ab Code: NYTE atrix (soil/w evel (low/hig	ST Log ater): WATE	in No.: 27	Contract: 9	QC Repo	ple ID	OU1A : 753807 : 05/14/96
ercent Solids Co			/L or mg/kg dry	y weight	): UG/	r_
	CAS No.	Analyte	Concentration	C Q	м	
Note: A "U" not detecte	in the "C" d in this s	(Concentrample; "B"	January As: Autation) column = Sample value eporting limit	TU * E E EN	s the r than	analyte was Instrument

## INORGANICS ANALYSIS DATA SHEET

Matrix (soil/water): WATER Lab Sampl Level (low/high) : LOW Date Rece	W-10R
Lab Code: NYTEST Login No.: 27538_ QC Report Matrix (soil/water): WATER Lab Sampl Level (low/high) : LOW Date Rece	— e ID: 753808
Level (low/high) : LOW Date Rece	
Percent Solids :0.0	
Concentration Units (ug/L or mg/kg dry weight):	UG/L
, , , , , , , , , , , , , , , , , , , ,	<del>-</del> ,
CAS No. Analyte Concentration C Q	м
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	P_
7439-92-1 Lead 2.6 B *	P
	P
7440-66-6   Zinc29.9   _ EN	P_
	—
	—
	<del></del>
CODES:	<del></del> •
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spe	ectrophotometr
Note: A "U" in the "C" (Concentration) column indicates	the analyte was
Note: A "U" in the "C" (Concentration) column indicates not detected in this sample; "B" = Sample value greater Detection Limit, but less than reporting limit; "NR" = Note that the sample is the sample value of the sample valu	than Instrumen
omments:	or redutted.
W-10R	

#### INORGANICS ANALYSIS DATA SHEET

Lab Name: NYTE	ST_ENV_INC_		Contract: 9	622307_		W-1R
Lab Code: NYTE	ST Log	in No.: 27	538_	QC Rep	ort	No.OU1A
Matrix (soil/w Level (low/hig Percent Solids	h) : LOW					ID: 753809 ved: 05/14/96
Cor	ncentration	Units (ug	/L or mg/kg dry	y weigh	ıt):	UG/L_
	CAS No.	Analyte	Concentration	c Q	м	
CODES :	7440-50-8 7439-89-6 7439-92-1 7440-23-5 7440-66-6	Copper Iron Lead Sodium Zinc	14.9 1490000 1.5 1510000 9670	Ü * EEN EN		
Note: A "U" not detected Detection L Comments: W-1R NA A	in the "C" in this simit, but l	(Concentr ample; "B" ess than r UTION	vapor, AS: Autorion) column : = Sample value eporting limit	indicat e great ; "NR"	es t er t = No	han Instrument t Required.

#### INORGANICS ANALYSIS DATA SHEET

Lab Name: NYTEST_ENV_INC	Tob Vomes 1	Number Elli The		Contract: 0	622207	W-2R
Matrix (soil/water): WATER Level (low/high) : LOW Percent Solids :0.0   Concentration Units (ug/L or mg/kg dry weight): UG/L_    CAS No.					<del></del>	
Concentration Units (ug/L or mg/kg dry weight): UG/L     CAS No.	Lab Code: N	NYTEST Log	in No.: 27	538_	QC Report	No.OU1A
CAS No.  Analyte Concentration C Q M  7440-50-8 7439-89-6 7439-92-1 7440-23-5 7440-66-6  Zinc 970000 E P Zinc PP Zinc PN Zinc SON PP  CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was	Level (low/	high) : LOW				
CAS No.  Analyte Concentration C Q M  7440-50-8 7439-89-6 7439-92-1 7440-23-5 7440-66-6  Zinc 970000 E P Zinc PP Zinc PN Zinc SON PP  CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES:  P: ICP; F: GFAA; Note: A "U" in the "C"  Copper		Concentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was		CAS No.	Analyte	Concentration	C Q	M
Taylor   T		7440-50-8	Copper	54.1		
CODES: P: ICP; F: GFAA; CV: Cold Vapor; As: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was			Iron	1070000		P_
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was				1.5	U  <u>*</u>	
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was		7440 00 0	BINC	1,300	-  ·	• -
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-  -	
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-  -	-
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-  -	
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was		-			-	
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-  -	<del>-</del>
CODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was	•					
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was					-	<del>-</del>
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						<b></b>   .
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was	CODEC				_  .	
Note: A "U" in the "C" (Concentration) column indicates the analyte was		F · GFAA:	cv. cold v	Vanor: AS: Aut	tomated Sp	ectrophotometric
not detected in this sample; "B" = Sample value greater than Instrument	Note: A not dete	"U" in the "C" cted in this s	(Concentra ample; "B"	ation) column i = Sample value	indicates ( greater (	the analyte was than Instrument
Detection Limit, but less than reporting limit; "NR" = Not Required.	Detectio	n Limit, but lo	ess than re	eporting limit;	"NR" = Nc	ot Required.
Comments:		7 TOTO - 3 M 2 2 4	OV DTTTMTO	NT.		
W-2RNA,_FE_:_AT_A_10X_DILUTION	W-2KN	A,_rt_;_AT_A_1	OY_DIPOLIO			
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#### INORGANICS ANALYSIS DATA SHEET

	water): WATE gh) : LOW s :0.						ID: 753811 ed: 05/14/9
C	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: U	G/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	Copper	65.2	-	·	P	
	7439-89-6	Iron	76300	- :		P	
	7439-92-1	Lead	1.5	Ū	*	P	
	7440-23-5	Sodium_	1350000		E	P_ P_	
	7440-66-6	Zinc	115		EN_	P_	
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ote: A "U	" in the "C" ed in this s	(Concentr ample; "B"	Vapor; AS: Autation) column : = Sample value eporting limit	ind e g	icates reater	the	e analyte w an Instrume

## INORGANICS ANALYSIS DATA SHEET

Tab Names NV	MECH ENG INC		Contract: 9	622207	DUP
Lab Name: NI	TEST_ENV_INC_		Contract: 9	622307	I
Lab Code: NY	TEST Log	in No.: 27	538_	QC Report	No.OU1A
Level (low/h	/water): WATE igh) : LOW ds :0.				e ID: 753812 ived: 05/14/96
	Concentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q 1	M
	7440-50-8	Copper	1.3	<del> </del>   <del> </del>	P
	7439-89-6	Iron	82500		P_
	7439-92-1	Lead	1.5		P_
	7440-23-5	Sodium	1300000		P_
	7440-66-6	Zinc	233		P_
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CODES :				. — .	
					ectrophotometric
					the analyte was
not detec	ted in this so	ampie; "b"	= Sample value eporting limit:	e greater :	than Instrument
Comments:	manufacture and an	CHAIL I	-portaring ramate	, – M	ne vedatten.
	NA_AT_A_20	X_DILUTION			· · · · · · · · · · · · · · · · · · ·
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## INORGANICS ANALYSIS DATA SHEET

ab Name: NYTES			Contract: 9	622307 QC Repo	rt No.	W-4R
trix (soil/wa vel (low/high rcent Solids	i) : LOW			Lab Sam	ple ID	 : 753813 : 05/14/96
Con	centration	Units (ug	/L or mg/kg dry	y weight	): UG/1	<u>.                                    </u>
	CAS No.	Analyte	Concentration	C Q	M	
ODES: P: ICP; F Note: A "U" not detected Detection Li mments:	in the "C" in this somit, but lo	CV: Cold (Concentrample; "B"	1.3 17700 1.5 1340000 20.5  Vapor; AS: Autation) column = Sample value eporting limit	TO A STATE OF THE	the a than Not Re	inalyte was Instrument

## INORGANICS ANALYSIS DATA SHEET

lah Namo: NVT	FOR PART THO		Contract: 9	622207	W-3R
Lab Code: NYT	EST Log	in No.: 27	538_	QC Report	No.OU1A
Matrix (soil/ Level (low/hic Percent Solid	gh) : LOW				e ID: 753814 ived: 05/14/96
Co	oncentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q I	M
	7440-50-8	Copper	19.1	B - 1	P
	7439-89-6	Iron	24500	_  _     1	P_
	7439-92-1	Lead	1.5		P_
	7440-23-5	Sodium	1320000		<u>P_</u>
	7440-66-6	Zinc	32.2	_ _EN	P_
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CODEC -	1	l		_  _	
CODES:	P'A CPANA	- CTT - C-1-1-1	700000 300 3114		
P: ICP;	r : Graa; ! in the "c"	(Concentry	vapor; As: Aut	comated Spe	ectrophotometric the analyte was
note. A to	od in this s	unicentra un celeure	= Cample value	areater t	than Instrument
Detection I	dimit, but 1	ess than re	eporting limit	: "NR" = No	ot Remired
comments:	LIMIC, NGC I	iiuii 1	-F-rrid rimit!	, 4140 - 110	o nedarren.
	NA_AT_A_20X_	DILUTION `			
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## INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

ab Name: NYTEST_ENV_INC_		Contract: 9	622307	W-3G
ab Code: NYTEST Log				No OIII A
		230_		<del></del>
atrix (soil/water): WATE evel (low/high) : LOW ercent Solids :0.			Lab Sampl Date Rece	e ID: 753815 eived: 05/14/96
Concentration	Units (ug	/L or mg/kg dry	y weight):	UG/L_
CAS No.	Analyte	Concentration	C Q	M ,
7440-50-8	1	1.3		P_
7439-89-6 7439-92-1	Iron Lead	47800		P
7440-23-5	Sodium	17.9		P_
7440-66-6	Zinc	129	EN_	P_
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ODES: P: ICP; F: GFAA;	CV Cold	Vanor: As: Aut	comated Sn	ectrophotometr
Note: A "U" in the "C"	(Concentr	ation) column i	indicates	the analyte was
not detected in this s	ample; "B"	= Sample value	greater	than Instrument
Detection Limit, but 1 mments:	ess than r	eporting limit;	"NR" = N	ot Required.
W-3GNA_AT_A_20X_	DILUTION			
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#### INORGANICS ANALYSIS DATA SHEET

Lab Name: NYTE	ST_ENV_INC_		Contract: 9	622307	W-3S
Lab Code: NYTE	ST Log	in No.: 27	538_	QC Report	No.OU1A
Matrix (soil/w Level (low/hig Percent Solids	h) : LOW		· .		e ID: 753818 ived: 05/14/96
Со	ncentration	Units (ug	/L or mg/kg dr	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q 1	M
CODES:	7440-50-8 7439-89-6 7439-92-1 7440-23-5 7440-66-6	Copper_Iron_Lead_Sodium_Zinc	6.8 155000 1.5 1510000 195	U * 1	P_ P_ P_ P_ P_ 
Note: A "U" not detected	in the "C" d in this s imit, but l	(Concentrample; "B"	ation) column :	indicates in greater in the greater	

#### INORGANICS ANALYSIS DATA SHEET

Concentration Units (ug/L or mg/kg dry weight): Ug/L   CAS No.	Name: NYTE: Code: NYTE:							W-5R		
CAS No. Analyte Concentration C Q M  7440-50-8	el (low/high	n) : LOW		- 	La	- b Samp	le ID:	753819		
7440-50-8 7439-89-6 7439-99-1 100	Cor	ncentration	Units (ug	/L or mg/kg dry	y w	eight)	: UG/L	_		
7439-89-6 7439-92-1 7440-23-5 7440-66-6 Zinc		CAS No.	Analyte	Concentration	С	Q	M			
Note: A "U" in the "C" (Concentration) column indicates the analyte w not detected in this sample; "B" = Sample value greater than Instrume	P: ICP; I Note: A "U"	7439-89-6 7439-92-1 7440-23-5 7440-66-6	Iron Lead Sodium Zinc  CV: Cold (Concentr	5500 1.5 2810000 17.1 	B	E_ENated Sicates	P P P P P P P P P P P P P P P P P P P	nalyte wa		

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV	_INC		Contract:	9622307	
Lab Code: NYTEST	Login N	0.: 27538_		QC Report	No.: OU1A_
Initial Calibration	Source:	SPEX			•
Continuing Calibrati	on Source:	SPEX			

Concentration Units: ug/L

								·	
Analyte	Initia True	al Calibra Found		True	Continui: Found		ibration Found	%R(1).	M
CopperIronLeadSodiumZinc	5000.0 1000.0 _11000.0	_1010.67 _5048.86 _1018.30 10467.41 _1031.14	101.0 101.8 _95.2	_25000.0 500.0 _25000.0	25350.10 516.44 25689.04	101.4 103.3 102.8	509.74	_99.4 101.9 _99.3	P P P P P
21110		1031.14							_

NR : Analyte Not Required

NEI FORM 2 - (9/93)

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#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_	INC		Contract:	9622307	7		*
Lab Code: NYTEST	Login N	0.: 27538_		QC	Report	No.:	OU1A
Initial Calibration S	ource:	SPEX			•		Se .
Continuing Calibratio	n Source:	SPEX	<del></del>				

Concentration Units: ug/L

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	Initia	al Calibr		<i></i>	Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper			T		_2956.98				P P P P P
Iron			]				25108.60		P_
Lead							516.44		P
Sodium				25000.0	25145.23	100.6	25871.40	103.5	P
Zinc							_3153.25		P_
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#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_ING	Contract:	9622307
Lab Code: NYTEST	Login No.: 27538_	QC Report No.: OU1A
Initial Calibration Sour	cce: SPEX	
Continuing Calibration S	Source: SPEX	

Concentration Units: ug/L

Analyte	Initia True	l Calibr Found		True	Continui: Found			%R(1)	]
Copper				3000.0	_2950.34	_98.3	_2923.05	_97.4	PPPP
Iron				_25000.0	25188.36	100.8	$\overline{2}5013.64$	100.1	P
Lead							523.76		P.
Sodium							26374.95		P.
Zinc				3000.0	_3216.04	107.2	_3192.67	106.4	P.
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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Na	ame:	NYTEST_ENV_INC	?	· · · · · · · · · · · · · · · · · · ·	Contract:	9622307			
Lab Co	ode:	NYTEST	Login No	27538_		QC	Report	No.:	OU1A_
Initia	al Ca	libration Sour	ce:	SPEX	_				
Contin	nuing	Calibration S	ource:	SPEX	<u></u>				• . •

Concentration Units: ug/L

Analyte	Initial True	Calibr Found		True	Continuing Found	ng Cal: %R(1)		%R(1)	Ņ
	<u> </u>						-		
Copper				3000.0	_2870.91	_95.7	_2889.51	_96.3	P P P
Iron			l	_25000.0	$\overline{2}4613.56$	_98.5	24790.42	_99.2	P_
Lead	_			500.0	520.21	104.0	520.19	104.0	P_
Sodium			.]		26315.43				ם ו
Zinc		•		3000.0	_3136.43	104.5	_3150.75	105.0	P_
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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name:	NYTEST_ENV_INC		Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27538_		QC Report	No.: OU1A_
Initial Ca	llibration Sour	ce: SPEX			
Continuing	Calibration S	ource: SPEX	-		

Concentration Units: ug/L

Copper Iron Lead Sodium Zinc		25000.0	_2879.23 24667.07	_96.0 98.7		P_ P_
·		25000.0	521.11 25920.09 _3132.42	104.2		P P P P

NR : Analyte Not Required

NEI FORM 2 - (9/93)

500234

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name:	NYTEST_ENV_IN	2	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 2	7538_	QC Report	No.: OU1A_
Initial C	alibration Sou	cce: SPEX			•
Continuin	g Calibration	Source: SPEX			

Concentration Units: ug/L

								PR 2	-
	Initia	al Calibra	ation		Continui				
Analyte	True	Found	%R(1)	True	Found	₹R(1)	Found	%R(1)	M
Copper	1000.0	997.34			_2877.29		_2795.68		P_
Iron	5000.0			_25000.0	24895.79	_99.6	24584.86		P P
Lead	1000.0				501.93				P_
Sodium	_11000.0	11102.70	100.9	_25000.0	25204.65	100.8	25107.96		P
Zinc	1000.0	998.50	_99.8	3000.0	_3014.60	100.5	_2995.14	_99.8	P_ P_
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#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name:	ab Name: NYTEST_ENV_INC			Contract:	9622307	<u> </u>		
Lab Code:	NYTEST	Login No	27538_		QC	Report	No.:	OU1A
Initial C	alibration Sou	rce:	SPEX					
Continuin	g Calibration	Source:	SPEX					

Concentration Units: ug/L

· .		l Calibr		_	Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	1
Copper	100 E			3000.0	_2789.98	_93.0	_2789.19	_93.0	P
Iron			\ <u></u>		24561.26	_98.2	$\overline{2}4667.51$	98.7	P
Lead			l	500.0		99.4	498.37		P
Sodium						100.1	25216.43	100.9	P
Zinc				3000.0	_2989.72	_99.7	_3016.84	100.6	P
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NR : Analyte Not Required

NEI FORM 2 - (9/93)

500236

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_	ENV_INC	С	ontract:	9622307		
Lab Code: NYTEST	Login N	o.: 27538_		QC Report	No.: OUI	LA
Initial Calibrati	on Source:	SPEX				
Continuing Calibration	ation Source:	SPEX				

Concentration Units: ug/L

	Tnitia	l Calibr	ation		Continui	ng Cal	ibration		
Analyte	True	Found			Found		Found	%R(1)	M
Copper Iron Lead Sodium				_25000.0 500.0	25171.67 509.73	100.7	2839.23 25095.40 514.81 25952.72	100.4	P P P P
Zinc							_3050.61		P_
									_
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#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Na	b Name: NYTEST_ENV_INC				Contract:	9622307	· · · · · · · · · · · · · · · · · · ·		
Lab Co	de:	NYTEST	Login No	27538_		QC	Report	No.: (	OU1A_
Initia:	l Ca	libration Sour	ce:	SPEX	_				_
Continu	uing	Calibration S	ource:	SPEX	-				

Concentration Units: ug/L

Initia	al Calibra	ation		Continuí	ng Cal:	ibration		
True	Found	%R(1)	True				%R(1)	M
				_2942.03	_98.1			
							100.4	P_
1000.0	1045.25	104.5	500.0	501.39	100.3	505.62	101.1	P
1000.0	10328.81	93.9	25000.0	24076.74	96.3	24425.81	97.7	P_
1000.0	_1040.64	104.1	3000.0	_3006.31	100.2	_3034.55	102.8	P_
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	1000.0 5000.0 1000.0	True Found  1000.0	1000.0   1024.19   102.4 5000.0   5363.24   107.3 1000.0   1045.25   104.5	True Found %R(1) True    1000.0	True Found %R(1) True Found    1000.0	True Found %R(1) True Found %R(1)  1000.0	True Found %R(1) True Found %R(1) Found    1000.0	True Found %R(1) True Found %R(1) Found %R(1)    1000.0

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC	Contract:	9622307	<u> </u>			
Lab Code: NYTEST Login 1	No.: 27538_	QC	Report	No.:	OU1A_	
Initial Calibration Source:	SPEX					
Continuing Calibration Source:	SPEY				•	

Concentration Units: ug/L

		l Calibr			Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper			T	3000.0	3043.57	101.5		1	P
Iron					25791.66				PPPP
Lead				500.0	515.28	103.1			P
Sodium					25180.48				P
Zinc				3000.0	_3171.90	105.7			P
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#### CRDL STANDARD FOR AA AND ICP

Lab Name:	NYTEST_ENV_	INC	· 	Contract:	9622307	
Lab Code:	NYTEST	Login No.:	27538_		QC Report No.: 0	U1A
AA CRDL St	tandard Sour	ce: SPEX			•	
ICP CRDL S	Standard Sour	rce: SPEX				

	CRDL St	andard for	AA		CRDL Star	ndard :	for ICP Final	L
Analyte	True	Found	%R	True	Found	%R	Found	%R
Copper				50.0	53.18	106.4	53.35	_106.7
LeadSodium				6.0	6.60	110.0	7.44	_124.0
Zinc				40.0	43.29	108.2	47.08	_117.7
								-

## CRDL STANDARD FOR AA AND ICP

Lab Name: NYTEST_ENV_	INC	Contract:	9622307	
Lab Code: NYTEST	Login No.: 27538_		QC Report No.:	OU1A
AA CRDL Standard Sour	ce: SPEX		•	
ICP CRDL Standard Sou	rce: SPEX	,		

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	CRDL St	andard fo	r AA		CRDL Star	ndard :		
					Initial		Final	
Analyte	True	Found	%R	True	Found	&R	Found	%R `
Copper				50.0		<u> </u>	50.25	_100.5
Iron	-		······································	6.0		<u> </u>	5.88	98.0
Sodium								
Zinc			<del></del>	40.0			43.18	_108.0
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#### CRDL STANDARD FOR AA AND ICP

Lab Name: NYTEST_ENV_	INC	Contract: 9622307	
Lab Code: NYTEST	Login No.: 27538	QC Report No.: OU1	.A
AA CRDL Standard Source	ce: SPEX		
ICP CRDL Standard Sour	rce: SPEX		

	CRDL S	tandard for	r AA			CRDL Star	ndard :	for ICP Final	
Analyte	True	Found	%R		True	Found	%R	Found	%R `
Copper Iron					_50.0	52.90	105.8	54.48	_109.0
LeadSodium					6.0	6.50	108.3	8.05	_134.2
Zinc					40.0	46.76	116.3	48.72	_121.8
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#### CRDL STANDARD FOR AA AND ICP

Lab Name: NYTEST_EN	v_inc	Contract:	9622307	
Lab Code: NYTEST	Login No.: 27538	_ · · ·	QC Report No.:	OU1A
AA CRDL Standard So	urce:		•	•
ICP CRDL Standard So	ource: SPEX			

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	CRDL St	andard fo	r AA		CRDL Star	ndard i		
					Initial		Fina:	l ,
Analyte	True	Found	%R	True	Found	%R	Found	&R
Copper				50.0	61.69	123.4	61.36	_122.7
Iron Lead				6.0	8.31	138.5	6.80	_113.3
Sodium						ļ		\
Zinc				40.0	37.94	_94.8	37.52	93.8
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#### ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST\_ENV\_INC\_\_\_\_\_ Contract: 9622307\_\_\_\_

Lab Code: NYTEST Login No.: 27538\_ QC Report No.: OU1A\_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L) C	F	nuing Calibr Blank (ug/L) C 2	ration C 3	С	Prepa- ration Blank C	М
Copper_Iron Lead Sodium 7inc	1.3 U 10.8 U 1.5 U 511.0 U 2.1 U	1.3	1.3 22.8 3 1.5 511.0	U1.3_ B89.2_ U1.5_ U511.0_	U B U U B	1.300 U 47.070 B 1.640 B 511.000 U 10.640 B	PPP
					- - - -		

NR = Analyte Not Requested

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_E	ENV_INC	Contract:	9622307	
Lab	Code:	NYTEST	Login No.: 27538_		QC Report No.	: OU1A
Prep	aratio	n Blank	Matrix (soil/water):			•
Prep	aratio	n Blank	Concentration Units (ug/	L or mg/kg	):	

Analyte	Initial Calib. Blank (ug/L)	С	Cont.	ini B C	uing Calib lank (ug/L 2	rat ) C	tion 3	С	Prepa- ration Blank	С	M
Copper Iron Lead Sodium Zinc			1.3 21.9 1.5 -750.8 2.1	U B U B U	1.3 19.5 1.5 -717.4 2.1	U B U B U	1.3 17.9 1.5 511.0 2.1	B U U U			P P P P
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NR = Analyte Not Requested

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# ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name:	NYTEST_ENV_INC	Contract:	9622307	
Lab Code:	NYTEST Login No.: 27538_		QC Report No	.: OU1A
Preparation	on Blank Matrix (soil/water):			,
Preparatio	on Blank Concentration Units (ug/I	or mg/kg	) <b>:</b>	

	,									Т		- 1	_	
	Analyte	Initial Calib. Blank (ug/L)	С	Conti	nı B.	ling Calib lank (ug/L) 2	rai C	tion 3	С		Prepa- ration Blank	С		M
	Copper		-	3.4	В	1.3	U	1.3	Ū		**************************************	$\sqcap$	1	P
	Iron		_	50.2	В		U	16.2	В				1	P
	Lead		_	1.5 511.0_	U	1.5_	U	1.8_	В			_	1	P P
****	Sodium		_	511.0_	U		В	511.0	บ			_		
	Zinc		_	2.2_	В	2.1_	U	2.1_	U		***************************************	_		P
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NR = Analyte Not Requested

# ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_	ENV_INC	Contract:	9622307		
Lab	Code:	NYTEST	Login No.: 27538	<b>-</b>	QC Report	No.:	OU1A
Prep	paratio	on Blank	Matrix (soil/water):				
Prep	paratio	on Blank	Concentration Units (	ug/L or mg/kg	) <b>:</b>		

Analyte	Initial Calib. Blank (ug/L)	С	Cont:		uing Calibr lank (ug/L) 2		cion 3	С	Prepa- ration Blank C	M
CopperIronLeadSodiumZinc	1.3 -13.9 1.5 511.0 2.1	מממשם	1.3 10.8 1.5 511.0 2.1	ם ט ט ט	11.7 1.5 511.0	U B U U U	1.3 52.2 1.5 511.0 2.1_	U B U U U		P P P P P
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NR = Analyte Not Requested

# ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name:	NYTEST_E	NV_INC	Contract:	962230	07		
Lab Code:	NYTEST	Login No.: 27538_		QC	Report	No.:	OU1A
Preparation	on Blank	Matrix (soil/water):					
Preparation	on Blank	Concentration Units (ug/	or mg/kg	):			

Analyte	Initial Calib. Blank (ug/L)	Cont	inui Bla C	ng Calibi nk (ug/L) 2	rat C	cion 3	С	Prepa- ration Blank C	М
Copper_ Iron_ Lead_ Sodium_ Zinc_		1.3 17.0 1.5 511.0 2.8	U	1.5	U B U U U	1.3 10.8 1.5 511.0 2.1	ם ם ם ם ם ם		P P P P
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

# ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_	ENV_INC	Contract:	96223	07		
Lab	Code:	NYTEST	Login No.: 27538_		QC	Report	No.:	OU1A_
Pre	paratio	on Blank	Matrix (soil/water):					
Pre	paratio	n Blank	Concentration Units (ug/	L or mg/kg	):			

Analyte	Initial Calib. Blank (ug/L)	С	Conti	ini B.	ling Calib lank (ug/L 2	rai ) C	tion 3	С	Prepa- ration Blank C	ŀ	4
CopperIron	10.8 1.5 511.0	ט ט ט ט ט ט ט ט ט ט ט ט ט ט	1.3_ 19.1_ 1.5_ 511.0_ 2.1_	U B U U U	1.3 19.1 1.5 511.0 2.1	U B U U U	1.3 10.8 1.5 511.0 -4.6	ם ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט ט		P P P P P	
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NR = Analyte Not Requested

# ICP INTERFERENCE CHECK SAMPLE

Lab N	lame:	NYTEST_ENV_1	INC		Contract:	9622307	
Lab C	ode:	NYTEST	Login No.: 2	7538_		QC Report No.:	OU1A
TCD T	D Mumb	Ar. TPACE			TCS Source:	FDA	

Concentration Units: ug/L

	T	rue	In:	itial Found	đ	Final Found			
	Sol.	Sol.	Sol.	Sol.		Sei.	Sol.		
Analyte	A	AB	A	AB	%R	A	AB	%R	
Copper	0	500	2		106.4	6	529.5		
Iron	20000	200000	198651	206001.8	103.0	201936	208017.1	104.0	
Lead	0	1000	-36	997.7	99.8		1031.3	103.3	
Sodium	0	0	-101	-645.0	1	-210	-541.2		
Zinc	71	1000	-23	1023.5	102.4	-23	1057.9	105.8	
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NEI FORM 5 - (9/93)

# ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	NYTEST_ENV_	INC	Contract:	9622307	
Lab	Code:	NYTEST	Login No.: 27538_		QC Report No.:	OU1A
TOD	TD Morel	nows MDXCE		TCC Courses	EDA	

	To Sol.	rue Sol.	Initial Found Sol. Sol.			Final Found Sol. Sol.			
Analyte	A	AB	A	AB	%R	A	AB	%R	
		<u> </u>		I	<del> </del>	<u> </u>	F1F 1	1100 0	
Copper	0		\ <del></del>			106257	205883.0	103.0	
Iron	20000					_196357 -38	1028.3		
Lead	0	1000			<b> </b>		1028.3 155.2	102.8	
Sodium	$\begin{vmatrix} \\ 71 \end{vmatrix}$	0					1056.2	305 6	
Zinc	'1	1000			l ———	22	1056.2	103.0	
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# ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	NYTEST_ENV_	INC	Contract:	9622307	
Lab	Code:	NYTEST	Login No.: 27538_		QC Report No.:	OU1A
ICP	ID Num	ber: TRACE		ICS Source:	EPA	

•	دى	rue	Tn	itial Found	9	1	Final Found	4
·	Sol.	Sol.	Sol.	Sol.	•	Sol.	Sol.	4
Analyte	A	AB	A A	AB	%R	A	AB	%R
	••			•••	,			041
Copper	0	500	3	517.3	103.5	. 5	495.1	99.0
Iron	200000	200000		206918.2			202224.3	101.1
Lead	0	1000	-39	1013.5	101.4	-34	996.1	
Sodium	0		161	369.7		0		_
Zinc	71	1000	-17	991.0	99.1	-17	983.0	98.3
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# ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_ENV_	INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27538_		QC Report No.:	OU1A
ICP ID Num	ber: TRACE		ICS Source:	: EPA	

	ጥነ	rue	Ţn:	itial Found	3	1	Final Found	3
	Sol.	Sol.	Sol.	Sol.	-	Sol.	Sol.	,
Analyte	A	AB	A	AB	%R	A	AB	%R
12.02700					,	•		•••
Copper	0	500	38	545.0	109.0	6	510.0	102.0
Iron	20000	200000	203574	202622.3	101.3	200350	193852.8	96.9
Lead	. 0	1000	-35	972.1		-34	952.6	
Sodium	0	0	280			189	127.4	
Zinc	71	1000	-23	981.4	98.1			94.7
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		NITES	T. 1	ENVIRONMENTAL .	TM	Ç.			
		MATRIX SP	IK	E RECOVERY DATA	A :		SAMPLE N	ο.	
							W-3GMSD		
Lab Name:	NYTEST_EN	NV_INC		Contract:	9	622307			
Lab Code:	NYTEST	Login No.:	2	7538_		QC Report	No. : 01	<b>U1</b> .	A
Matrix (so	il/water)	: WATER_				Level (lo	w/med):	LO	Ā
Solids f	or Sample	e:0.0						·	٠.
	Concentr	cation Units (ug	/L	or mg/kg dry	we.	$ight): UG/L_$			
Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)	O	Spike Added (SA)	%R	Q	ì
Copper	75-125_	233.4300		1.3000		250.00	93.4	-	P
Iron				47817.1800		1000.00		_	P
LeadSodium	75-125_	527.6800	-	17.9400	-	500.00	101.9	_	P NI
Zinc	75-125	755.4600	-	129.3100	-	500.00	125.2	N	P
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NR : Analyte Not Required

NEI FORM 6 - (9/93)

		POST DIGEST	SI	PIKE SAMPLE RE	CO.	VERY		SAMPLE 1	10	•
ab Name:	NYTEST EN	NV_INC		Contract: 96	22	307		W-3GA	-	
		Login No.:				QC Rep	\	No : OI	(11:	λ
			. <i>,</i> .							
atrix (so	11/water)	: WATER_				revel	( 10/	w/med): ]	LOV	N
		Concent	rat	cion Units: u	<b>g/</b> :	L			•	
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Added (S	SA)	₹R	Q	м
Copper			-		Г		<del></del>		-	NR
Iron			_		=				_	NR NR
Sodium					<u> </u>				_	NR
Zinc		409.56	-	129.31	_	260	0.0	107.8	_	P_
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omments: W-3G										
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NEI FORM 7 - (9/93)

NR = Analyte Not Requested

DUPLICATES

SAMPLE NO.

Lab	Name:	NYTEST_ENV_I	INC	Contract:	9622307	W-3GMS
Lab	Code:	NYTEST	Login No.:	27538_	QC Rep	ort No. : OU1A

Matrix (soil/water): WATER Level (low/med): \_LoW\_\_

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

		T	$-\tau$	T			$\top$	_
Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	м
Copper		1.3000	<del>     </del>	1.3000	<u>י</u>		-	
Iron_		47817.1800		44847.3200		6.4	1-	P-
Lead	5.0	17.9400	-	11.2700		45.7	*	P
Sodium		1061840.0000	-	1089440.0000		2.6		σ_
Zinc		129.3100	-	143.7900		10.6	-	P_
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NR : Analyte Not Requested

# LABORATORY CONTROL SAMPLE

Lab Name: NYTEST_ENV_INC	Contract: 9622307
Lab Code: NYTEST Login No.: 2	7538_ QC Report No.: OU1A_
Solid LCS Source:	
Aqueous LCS Source: SPEX	

Analyte	Aque True	eous (ug/) Found	L) %R	True	Sol Found	id C	(mg/kg) Lin	nits	%R्
Copper	_1500.0	_1421.62	_94.8_			T			
Iron	11000.0	10060.94 _1012.10 _9970.40	_91.5_						
Lead	_1000.0	_1012.10	101.2_			_			
Sodium	10000.0	_9970.40	_99.7_						
Zinc	_1000.0	_1042.68	104.3_			<b> </b> _			
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# LABORATORY CONTROL SAMPLE

Lab Name:	NYTEST_ENV	_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27538_		QC Report No.: OU1A	
Solid LCS	Source:				
Aqueous LO	CS Source:	SPEX			

Analyte	Aque True	eous (ug/) Found	L) %R	True	Sol: Found	id C	(mg/kg) Li	mits	%R्
Copper	_1500.0	_1364.88	91.0						
Iron	11000.0	_9807.15 935.75	_89.2_						
Lead	1000.0	935.75	_93.6_			<u> </u>			
Sodium	10000.0	8876.64	88.8						
Zinc	1000.0	933.55	93.4						
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# ICP SERIAL DILUTION

SAMPLE NO.

						W-3GL	
Lab	Name:	NYTEST_ENV_	INC	Contract:	9622307		

Lab Code: NYTEST Login No.: 27538\_

QC Report No.: OU1A\_

Matrix (soil/water): WATER

Level (low/med): LOW\_

	L	Serial	T	8	Τ	
	Initial Sample	Dilution	- 1	Differ-		
Analyte	Result (I) C	Result (S)	C	ence	Įδ	M
Copper	1.30 U	6.50	Ū		-	P_
Iron	47817.18	47231.00	٦	1.2	1-	P_
Lead	17.94		B	32.8	1-	$ P^- $
Sodium	1061840.00	913850.00	Ы	13.9	E	P-
Zinc			-1			
Z111C	129.31	170.70_	-	32.0_	E	P_
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# Instrument Detection Limits (Quarterly)

Lab Name: NYTEST_ENV_INC	Contract: 9622307
Lab Code: NYTEST Login No.: 2753	SDG No.: OU1A_
ICP ID Number: TRACE	Date: 04/16/96
Flame AA ID Number :	-
Furnace AA ID Number :	<del>-</del>

	I				<u> </u>
	Wave-	<b>D</b> 1-			
	length	Back-	CRDL	IDL	
Analyte	(nm)	ground	(ug/L)	(ug/L)	M
Copper	324.75		25	1.3	P
Iron	271.44		100	10.8	
Lead	_220.35		5	1.5	
Sodium	330.23		5000	511.0	
Zinc	206.20		20	2.1	P-
ZINC	_200.20_				-
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Comments:			

NEI FORM 12 - (9/93)

# REPORT OF ANALYSIS

Log In No.: 27538

We find as follows:

		Biochemical		Chemical	l			
		Oxygen	Chloride	Oxygen	Color	Fecal	Fecal	Total
CLIENT		Demand		Demand		Coliforms	Strep	Coliforms
<u>ID</u>	ID	mg/L	mg/L	mg/L	Pt - Co	colonies/100 mL	colonies/100 mL	colonies/100 mL
					40.77	40.		
FB-01	2753801	3.0 U	1.0 U	3.0 U	10 U	1.0 U	1.0 U	1.0 U
W-2G	2753802	11.7	455	193	2000	1.0 U	1.0 U	1.0 U
W-1G	2753803	5.0	1130	170	300	1.0 U	1.0 U	1.0 U
W-4G	2753804	45	970	826	400	1.0 U	1.0 U	1.0 U
₩-9G	2753805	10.5	350	52.6	200	1.0 U	1.0 U	1.0 U
W-10G	2753806	3.0 U	40.2	18.7	300	1.0 U	1.0 U	1.0 U
W-9R	2753807	3.0 U	130	3.0 U	300	1.0 U	1.0 U	1.0 U
W-10R	2753808	3.0 U	26.1	3.0 U	100	1.0 U	1.0 U	1.0 U
W-1R	2753809	19900	1.0 U	27700	2000	1.0 U	1.0 U	1.0 U
W-2R	2753810	10200	1.0 U	24100	2000	1.0 U	1.0 U	1.0 U
W-4S	2753811	41.7	2600	611	2500	1.0 U	√ 1.0 U	1.0 U
DUP	2753812	41.3	620	647	1500	1.0 U	1.0 U	1.0 U
W-4R	2753813	3.0 U	2350	179	200	1.0 U	1.0 U	1.0 U
W-3R	2753814	3.7	2220	672	1000	1.0 U	1.0 U	1.0 U
W-3G	2753815	108	1450	1660	1500	1.0 U	1.0 U	1.0 U
W-3S	2753818	156	2420	1720	2000	1.0 U	1.0 U	1.0 U
W-5R	2753819	15	4370	276	1000	1.0 U	1.0 Ŭ	50000
" "	2,00017	10	4570	0	1000	1.00	2.0	20000
Method	Blank	3.0 U	1.0 U	3.0 U	10 U	1.0 U	1.0 U	1.0 U

			Ammonia		•		Total Dissolved	Total Organic
CLIENT	LAB ID	Surfactants mg/L	Nitrogen mg/L	Nitrate mg/L	Phenol mg/L	Sulfate mg/L	Solids mg/L	Carbon mg/L
FB-01	2753801	0.05 U	0.05 U	0.11	0.018	3.0 U	10 U	1.0 U
W-2G	2753802	0.68	0.735	0.04 U	0.024	348	1970	55.6
W-1G W-4G	2753803 2753804	0.56 1.56	8.09 167	0.04 U 0.04 U	0.031 0.093	453 26.3	2220 2420	40.2 138
W-9G	2753804	0.33	0.05 U	0.04 U	0.033	311	1130	4.98
₩-10G	2753806	0.12	0.05 U	0.04 U	0.011	155	283	1.0 U
W-9R	2753807	0.19	0.11	0.04 U	0.004	380	489	1.0 U
W-10R	2753808	0.76	0.05 U	0.04 U	0.004	132	184	1.0 U
W-1R	2753809	0.27	18.3	0.04 U	0.304	2240	27000	8260
W-2R	2753810	1.05	133	0.04 U	0.488	1460	16600	7570
W-4S	2753811	0.81	33.9	0.04 U	0.072	750	176	147
DUP	2753812	0.83	32.7	0.04 U	0.072	773	174	150
W-4R	2753813	0.56	0.166	0.06	0.188	40.5	5490	8.98
W-3R	2753814	0.90	0.244	0.04 U	0.079	40.5	3560	60.9
W-3G	2753815	1.89	280	0.04 U	0.215	336	3740	242
W-3S	2753818	1.24	75.7	0.04 U	0.202	198	5970	442
W-5R	2753819	2.05	1.62	0.04	0.127	84.2	8350	38.9
Method	Blank	0.05 U	0.05 U	0.04 U	0.0035 U	3.0 U	10 U	1.0 U

CLIENT : Emcon

Log In Number: 27533

PARAMETER	Sample Result	Duplicate Sample Result	% RPD	Sample Result for spike	Spike Added	Spike + Sample Result	% Spike Recovered	Sample for QC from same sample? (dup/spike)
Biochemical Oxygen Demand, mg/L	108	101	6.7	108	198	298	<b>96.</b> 0	YES/YES
Chloride, mg/L	1450	1440	0.7	1450	100	1540	90.0	YES/YES
Chemical Oxygen Demand, mg/L	1660	1814	11.9	1660	2500	4277	104.7	YES/YES
Color, Pt-Co	2000	2000	n.u					YES/YES
Surfactants, mg/L	1.89	1. BP	0.5	1.89	0.60	2.53	106.7	YES/YES
Ammonia, Nitrogen, mg/L	279.8	279.8	0.0	279.8	200	483.2	101.7	YES/YES
Nitrate, Nitrogen, mg/L	0.04 U	0.04 U	NC	0.04 U	0.50	0.52	104.0	YES/YES
Phenols, mg/L	0.03/	0.031	0.0	0.018	0.100	0.134	116.0	YES/YES
Sulfate, mg/L	3362	3/3.2	7.1	336.2	2000	2221.3	94.3	YES/YES
Total Dissolved Solid, mg/L	333	32/	3.7					МО
Total Organic Carbon, mg/L	241	240	0.8	121	190	219.3	98.0	YES/YES

NC : Non-calculable NA : Non-Available

E : Above method limit

U : Below method reporting limit

# GENERAL CHEMISTRY DATA



nytest environment inc.

box 1518 = 60 seaview blvd., port washington, ny 11050 = (516) 625-5500 = fax (516) 625-1274

June 27, 1996

Emcon 1433 North Market Blvd., Suite 2 Sacramento, CA 95833

: Susan Hopper A/P Dept.

: Kin-Buc LF 12568001000, OFF71-37-37.37.37

P.O. #: 3700053

Nytest Environmental, Inc., is pleased to submit our Project Number 9522307 for Login Number 27559, SDG No. OU1B, on your sample(s) received 05/15/96.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Michaelmake Mike Shmookler, Ph.D.,

**Laboratory Operations Manager** 

Nytest Environmental, Inc.

Report to: EMCON

Corporate Crossroads Park 1 International Blvd., Suite 700

Mahwah, NJ 07495

Attn: Rich Calagero

Encl: Shipped Via: NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled. Information contained herein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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SDG: OU1B

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2755901	W-5S	Water
2755902	W-5G	Water
2755903	W-6S	Water
2755904	W-6G	Water
2755905	W-6R	Water
2755906	FB-01	Water
2755907	W-8S	Water
2755908	W-7S	Water
2755909	W-7SMS	Water
2755910	W-7SMSD	Water
2755911	W-8R	Water
2755912	W-7R	Water
2755913	DUP	Water
2755914	W-7G	Water
2755915	W-8G	Water

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# MILESI ENVIRUNMENTAL INC.

# INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	NAME: M. LANI	TITLE: 5
Client: Emcon)	Date Broken <u> </u>	Military Time Seal Broken:
Login#: 27539	Analytical Parameter/Fraction:	Y Andrew Company

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT '
27559-01	W-55 ·	27559 - 13	DUP
or	W-56	14	w-76
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65	W-6R		
06	FB-01		
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### LABORATORY DELIVERABLES

Complete Cover page, Title page listing Lab Certification# 1. facility name & address, & date of report Table of Contents 2. Summary sheets listing analytical results for 3. all targeted and non-targeted compounds Summary Table cross-referencing field ID #'s vs. Lab ID #'s 4. Document bound, paginated and legible 5. Chain of Custody 6. Methodology Summary 7. Laboratory Chronicle and Holding Time check 8. Results submitted on a dry weight basis (if 9. applicable) Method Detection Limits 10. Lab certified by NJDEPE for parameters or appropriate 11. category of parameters or a member of the USEPA CLP Non-Conformance Summary 12. Meballmodel 6/28/96 Laboratory Manager or Environmental Date

Consultant's Signature

Check if

### METAL AMALYSIS COMPORNANCE/NON-CONFORMANCE SUMMARY FORFAT

		No	<u>Yes</u>
1.	Calibration Summary Meet Criteria		$\checkmark$
2.	ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria		V
3.	Serial Dilution Summary Submitted (if applicable) / Meet Criteria		V
4.	Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria	***************************************	<ul><li>✓</li><li>—</li></ul>
5.	Blank Contamination - If yes, list compounds concentrations in each blank:	<u> </u>	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		<u> </u>
7.	Extraction Holding Time Met  If not met, list number of days exceeded for each sample:		<u>マ</u>
8.	Analysis Holding Time Met	<del></del>	V
	If not met, list number of days exceeded for each sample:		
Addit	ional Comments:		
Labor	atory Manager: Michael hmost Date: 6/21/5	6	

Laboratory Chr	onicle
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Log In No.: 27559

Client Name: Emcon Date Received: 05/10/96

Sample ID: As per chain of custody

Inorganics:		Digested: 05/17/96
•••••	1. Metals	
		Analyzed: 05/20/96, 05/21/96, 06/23/96
•	2. Metals	
	3. Phenol	06/06/96
	J. Pilefiot	
Other Analysis:		Ammonia Nitrogen: 05/17/96
	et primarium de la companya de la co	
		BOD: 05/16/96
		Chloride: 06/11/96
	-	COD: 05/20/96
		000 00,00,70
		Color: 05/17/96
		Sulfate: 05/30/96, 05/31/96
		TDC: 05 (22 /04 D5 /2/ /04
		TDS: 05/22/96, 05/24/96
	***************************************	TOC: 06/10/96
		Surfactants: 05/30/96
	<del></del>	
		Nitrate: 05/21/96
	***************************************	
	Section Su	pervisor An A A
	Review & A	· 'VK
		ntrol Superfisor
	Review & A	pproval_ Mestivel limode

Dates are included for re-extractions and reanalysis.

# CASE NARRATIVE METALS

Login	No:	27559	SDG	No:	OU1B
•					

#### HOLDING TIMES

All samples associated with this SDG/LOGIN were prepared and analyzed within the specified holding time.

#### **CALIBRATIONS**

All ICV and CCV standards meet QC criteria.

The percent recovery of all components in the CRDL standard recovered within NEI control limits of  $\pm$  50% Note that CLP SOW ILM03.0 does not specify control limits for the CRDL standard.

### **BLANKS**

All preparation blanks and calibration blanks associated with these analyses meet QC criteria.

#### MATRIX SPIKES

Sample  $\underline{W-7S}$  was utilized as the matrix spike sample for these analyses.

All matrix spike recoveries met the 75-125% recovery criteria.

#### **DUPLICATES**

Sample <u>W-7S</u> was utilized as the duplicate sample for these analyses.

All Relative Percent Differences (RPDs) met QC criteria.

Note that all RPDs of 200% are due to one analyte being reported above the Instrument Detection Limit (IDL) and one result below the IDL.

#### LABORATORY CONTROL SAMPLE (LCS)

The percent recovery of all components in the LCS met QC criteria.

### SERIAL DILUTION

A serial dilution was performed on sample  $\underline{W-7S}$ . All percent differences (%D) were within the  $\pm$  10% acceptance limits.

# **SAMPLES**

All samples were analyzed in accordance with the requirements of the methods described in SW-846 Method 6010A.

No further analytical problems were encountered.

# SPECIAL PROJECT NOTES

None.

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.

Michaeloumon

Michael Shmookler, Ph.D. Laboratory Operations Manager

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REP 3	REF
BMA, Pesticides/PCB's Extraction		3510/3520		
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Hexavalent Chromium Sample Preparation	218.5			
Clean-Up		3610/3620/3630	/	
		3640/3660		
Organochlorine Pesticide and PCB's		•		
by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.
Purgeable Organics by GC/MS			624	524.
Base/Houtral, maids by CC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTRX			602	502.
EDB/DBCP by Microextraction				504.
NON-AQUEOUS NETHODOLOGIES:				
BWA, Pesticides/PCB's Extraction		3550		
AA/ICP Sample Proparation		3050		
Furnace Sample Preparation		3020/3030/3050		
Mercury Sample Preparation		7471		
Clean-Up		3610/3620/3630/		
		3640/3660		
GC, Gas Chromatography/Mass Spectrometry:				
Purgeable Organics	•	8240/8021		
Base/Neutral and Acid Extractables		8270		
Organophosphorus Pesticides		8140		
Organochlorine Pesticide and PCB's			•	
by Gas Chromatography		8080		
PTEX		8020		
Ralogenated Purgeable Organics		8010		

INDUCTIVELY COUPLED PLASMA (ICP):	REFERENCE 1	REFERENCE 2
Aluminum	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chromium	200.7	6010
Cobalt :	200.7	6010
Copper	200.7	6010
Iron	200.7	6010
Lead	200.7	6010
Magnesium	200.7	6010
Manganese	200.7	6010
Molybdenum	200.7	6010
Nickel	200.7	6010
Potassium	200.7	6010
Silver	200.7	6010
Sodium	200.7	6010
Tin	200.7	6010
Titanium	200.7	6010
Vanadium	200.7	6010
Zinc	200.7	6010
FURNICE AA:		
Antimony	204.1	7041
Arsenic	206.2	7060
Lead	239.2	7421
Selenium	270.2	7740
<b>Challium</b>	279.2	7841
rin -	282.2	
/anadium	286.2	7911
lercury	245.1	7470/7471
CAP:		
Priority Pollutants	200.7	6010/7060/
TAL Metals	200 7	7470/7740
in in all the same of the same	200.7	J010/7060/
CCRA Metals	200.7	7470/7740
ALM: INDERTS	200.7	6010/7060/
		7470/7740

ADDITIONAL INORGANIC PARAMETERS:	REFERENCE 1	REFERENCE 2
Biochemical Oxygen Demand	405.1	<del></del>
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance	120.1	9050
Odor	140.1	<del>3030</del> .
pii ii	150.1	
Hq	130.1	9045/9040/9041
TDS	160.1	3043/3043/3043
TSS	160.2	
TS	160.3	
Rardness :	130.1	
Temperature	170.1	
Turbidity		
Acidity	180.1	
Alkalinity	305.1	
Amonia	310.1	
Chloride	350.2/350.3	
Chloride	325.3	
Residual Chlorine	. 222	9252
COO	330.2	-
Cyanide (Total & Amenable)	410.3/410.4	
Oil & Grease	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	2002 1002
Fluoride	242.2	9070/9071
TEN	340.2	
MO2/NO3	351.2	
D.O	353.2	9200
	360.2	
Petroleum Hydrocarbons (Reference 4) Phenol	418.1	9066
Phosphorus	420.2	
Settleable Solids	365.1	
Settleadie Solids Silica	160.5	
Sulfate	370.1	
Sulfide	375.2/375.4	9038
Surfactants	376.1	9030
	425.1	
TOC	415.1	9060
rox		9020
MISCELLANBOUS ANALYSIS:		
Extraction Procedure Toxicity		1310
Ignitability		1010
Corrosivity		1110
Reactivity		Chapter 8.3
Paint Filter Liquid Test		9095
Poxicity Characteristic Leaching		=====
Procedure (TCLP)		(REF 4)
Cation Exchange Capacity of Soils	00001	
Cation Exchange Capacity of Solis	000014	9080

	REFERENCE 6
Total Coliform	909 <b>a</b>
Pecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

#### METHODOLOGY S'JMMARY

### REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Was
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Editi
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Paramete for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 198

# nytest environmental...

### Method Qualifiers for Iporganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

- \* C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.
- \* Q qualifier -- Specified entries and their meanings are as follows:
  - E The reported value is estimated because of the presence of interference.
  - M Duplicate precision not met ( CV > 20% ).
  - N Spiked sample recovery not within control limits.
  - S The reported value was determined by Method of Standard Addition (MSA).
  - W Post-digestion spike for Furnace AA analysis is out of control limits (85 115%), while sample absorbance is less than 50% of spike absorbance.
  - \* Duplicate analysis not within control limits.
  - + Correlation Coefficient for the MSA is less than 0.995.

    Entering "S", "W" or "+" is mutually exclusive.
- \* M (Method) qualifier enter:
  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "CV" for Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - "NR" if the analyte is not required to be analyzed.

# METALS DATA

### INORGANICS ANALYSIS DATA SHEET

			• · · · · · · · · · · · · · · · · · · ·	600007	W-5s
ab Name:	NYTEST_ENV_INC_		Contract: 9	622307	
Tab Code:	nytest log	in No.: 27	559_	QC Repor	t No.OU1B
Level (low,	il/water): WATE /high) : LOW lids :0.				le ID: 755901 eived: 05/15/96
			· .		'
	Concentration	Units (ug	/L or mg/kg dry	y weight)	: UG/L_
	CAS No.	Analyte	Concentration	C Q	м
	7440-50-8	Copper	1.3	ਹ -	P
	7439-89-6	Iron	46.4		P
	7439-92-1	Lead	1.5	U	P_
	7440-23-5	Sodium	3910		P_
	7440-66-6	Zinc	20.6		P_
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P: ICP;	F : GFAA;	CV: Cold V	Vapor; AS: Aut	tomated S	pectrophotometric
Note: A	"U" in the "C"	(Concentra	ation) column i	indicates	the analyte was
not dete	ected in this sa	ample; "B"	= Sample value	e greater	than Instrument
	on Limit, but le	ess than re	eporting limit;	; "NR" =	Not Required.
Comments:					
W-5S	<del></del>		<del></del>		
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### INORGANICS ANALYSIS DATA SHEET

	rest_env_inc_					_  _	W-5G
Code: NYI	TEST Log	in No.: 27	559_	QC :	Repor	rt No	.OU1B
	<pre>/water): WATE lgh) : LOW ls :0.</pre>						D: 755902 d: 05/15/
C	Concentration	Units (ug	/L or mg/kg dr	y we	ight)	: UG	5/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	Copper	3.6	$ _{\overline{B}} $		P_	
	7439-89-6	Iron	37300			P_	
	7439-92-1	Lead	1.5	<u>u</u>  _		P_	
	7440-23-5	Sodium	181000	- -		P_	
	7440-66-6	Zinc	232	- -		P_	
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### INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

						W-6S
o Name: NYT	EST_ENV_INC_		Contract: 9	622307_		
o Code: NYT	EST Log	in No.: 27	559_	QC Rep	ort No.C	U1B
	water): WATE gh) : LOW s :0.				mple ID: eceived:	755903 05/15/9
C	oncentration	Units (ug	/L or mg/kg dr	y weigh	t): UG/I	<u>-</u>
	CAS No.	Analyte	Concentration	C Q	м	
	7440-50-8	Copper	4.6		P	
	7439-89-6	Iron	7680 1.5		_ P_	
	7439-92-1 7440-23-5	LeadSodium	2110000		- P P	
	7440-66-6	Zinc	25.6			
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ments: W-65	SODTIM AT	A 10Y DTT	UTION			
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### INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

trix (soil/ vel (low/hid rcent Solid	, —	CR O	559_ /L or mg/kg dr	Lab Sa Date 1	Received	
	CAS No.	Analyte	Concentration	C Q	М	
	7440-50-8	Copper	11.4		P	
	7439-89-6	Iron	49600		P	
	7439-92-1	Lead	1.5	0	P	
•	7440-23-5	Sodium	41400	[_[	P_	
	7440-66-6	Zinc	36.4	_	P	
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### INORGANICS ANALYSIS DATA SHEET

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			•			
(	Concentration	Units (ug	/L or mg/kg dr	y weight	:): UG/L_	•
	CAS No.	Analyte	Concentration	C Q	м	
	7440-50-8	Copper	1.5		_   <del>P</del> _	
	7439-89-6	Iron	38800		P	
	7439-92-1 7440-23-5	LeadSodium	2310000	"	_ P_	
	7440-66-6	Zinc	32.0	-	P P	
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ES_:						
CP;	F : GFAA;	CV: Cold	Vapor; AS: Aut ation) column i	tomated indicate	Spectrop	hotom
ot detect	ed in this s	ample; "B"	= Sample value	e greate	r than I	nstru
etection	Limit, but 1	ess than r	eporting limit	"NR" =	Not Req	uired
ents:						
-6K	SODIUM_AT_A_	TOX_DILUTI	UN	······································		<u></u>

ab Name: NYTEST_ENV_INC Contract: 9622307 ab Code: NYTEST Login No.: 27559_ QC Report No.OUIB (atrix (soil/water): WATER			INORGANICS	ANALYSIS DATA	SH	EET		SAMPLE NO.
ab Code: NYTEST	ah Name: NVm	FOT FNV INC		Contract	622	307		FB-01
Concentration Units (ug/L or mg/kg dry weight): UG/L_   CAS No.	ab Rame: NII.	ESI_ENV_INC_		. Contract: 9	022	307	-	
Concentration Units (ug/L or mg/kg dry weight): UG/L_     CAS No.	Tab Code: NYT	EST Log	in No.: 27	559_	QC	Repor	t No	O.OU1B
CAS No.    Table   Concentration   C   Q   M     Table	Level (low/hic	gh) : LOW						
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.	C	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UC	G/L_
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.		CAS No.	Analyte	Concentration	С	Q	М	·
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.							P_	
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.		1	<del></del>				P_	
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.								
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:							P_	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					_[.			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:							·	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:		<u></u>			- -			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:								
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:	•				- -	· · · · · · · · · · · · · · · · · · ·	-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:								
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					_ .			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -		.	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:								
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					_ .	·	-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -			
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:					- -		-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. omments:								
	P: ICP; Note: A "U' not detecte Detection I Comments:	" in the "C" ed in this s	(Concentr ample; "B"	ation) column i = Sample value	ind g	icates reater	the tha	e analyte was in Instrument
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### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Tab Code: NYTEST	ab Name: NYTEST_ENV_I	NC	Contract: 9	622307	W-85
Concentration Units (ug/L or mg/kg dry weight): UG/L					No.OU1B
CAS No.	Level (low/high) : I	WO			
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. Comments:	Concentrat	ion Units (ug	/L or mg/kg dry	y weight):	UG/L_
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  Comments:	CAS No.	Analyte	Concentration	C Q I	M
	CODES: P: ICP; F: GFAA Note: A "U" in the not detected in thi Detection Limit, bu Comments:	-6 Iron -1 Lead -5 Sodium -6 Zinc -7 Z	Jample value eporting limit;	B	P_P_P_P_P_P_P_P_P_P_P_P_P_P_P_P_P_P_P_

NEI FORM 1 - (9/93)

### U.S. EPA - CLP

# 1 INORGANIC ANALYSES DATA SHEET

	EPA	SAMPLE	NO.
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ab Name: NYTE	ST_ENV_INC_	·····	Contract: 9	622	307	W-7S
ab Code: NYTE	ST Ca	se No.: 27	559_ SAS No.	: _	·····	SDG No.: OU1B_
atrix (soil/w	vater): WATE	R		La	b Samp	le ID: 755908
evel (low/med	l): LOW_			Da	te Rec	eived: 05/15/96
Solids:	0.	0				
Co	ncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UG/L_
	CAS No.	Analyte	Concentration	С	Q	M
	7440-50-8	Copper	1.3			P_
	7439-89-6 7439-92-1	Iron Lead	3110		<u> </u>	P_     P_
	7440-23-5	Sodium	2410000		······	P_
	7440-66-6	Zinc	25.1			P_
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olor After:		Clari	ty After:			Artifacts:
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ILM03.

### INORGANICS ANALYSIS DATA SHEET

Co	oncentration	Ilnita /va					
		outes (nd	/L or mg/kg dr	y w	eight	UG,	/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	Copper	2.5	B		P	
	7439-89-6	Iron	8230	1		P	
	7439-92-1	Lead	1.5	ן טּן		P_	
	7440-23-5	Sodium	2960000	_[		P_	
	7440-66-6	Zinc	113			P_	
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DES :	I	l	1			-11	
	F : GFAA:	CV: Cold	Vapor; AS: Aut	:Om:	ated 9	necti	cophotomet
Note: A MITM	in the "C"	(Concentr	ation) column i	nd	icates	the	analyte w
not detecte	d in this s	ample: "B"	= Sample value	5 G.	reater	than	Instrume
Detection I	imit, but 1	ess than r	eporting limit;	, "	NR" =	Not I	Required.
ments:		<del>-</del> -					<b>3 -</b> ·
	SODIUM AT	A 25X DILU	TION				

### INORGANICS ANALYSIS DATA SHEET

Analyte  -8 Copper6 Iron -1 Lead -5 Sodium6 Zinc	Concentration  1.3  16400  1.5  3180000  127	c <del>u</del>	Q Q	M P P P P P P	<u>.</u>
-8 Copper6 Iron1 Lead5 Sodium	1.3 16400 1.5 3180000	<u></u> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del>	Q	P P	
-6 Iron -1 Lead -5 Sodium	16400 1.5 3180000	<u></u>		P_ P	
-6 Iron -1 Lead -5 Sodium	16400 1.5 3180000	<u></u>		P_ P	
-1 Lead -5 Sodium	1.5 3180000	<u></u>		P	
-5 Sodium_	3180000	_ _			
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### INORGANICS ANALYSIS DATA SHEET

ab Name: NYTE	ST_ENV_INC_		Contract: 9	622	2307	DUP
Tab Code: NYTE	<del></del>					No.OU1B
matrix (soil/w Level (low/hig ercent Solids	h) : LOW					le ID: 755913 eived: 05/15/96
Co	ncentration	Units (ug	/L or mg/kg dr	уч	weight):	UG/L_
	CAS No.	Analyte	Concentration	С	Q	M
		Copper Iron Lead Sodium Zinc	1.3 15600 1.5 2890000 30.8	<del>บี</del>		P_ P_ P_ P
Note: A "U" not detecte	in the "C" d in this s imit, but l	(Concentra ample; "B" ess than re	ation) column : = Sample value eporting limit	inc e c	licates greater	ectrophotometric the analyte was than Instrument of Required.

### INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

el (low/hig ent Solids	ater): WATE h) : LOW :0.	<b>0</b> .	(T (Jan. 3	Date Rec	le ID: 755914 eived: 05/15/96
	CAS No.	1	/L or mg/kg dry Concentration		
					.
		Copper	8.4	B	P_
	7439-89~6	Iron	36300		P
		Lead	28.0		P_
	l .	Sodium	778000		P_
	7440-66-6	Zinc	176	-	P_
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ES:					
: ICP;	F : GFAA;	CA: COTQ	Vapor; AS: Aut	comated S	pectrophotometr
ote: A "U"	in the "C"	(Concentr	ation) column i	indicates	the analyte wa
ot detecte	d in this s	ambie: "R"	= Sample Value	greater	than Instrumen
etection L	imit, but i	ess than r	eporting limit;	; "NR" =	Not Required.
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## INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

rcent Solids	vater): WATE jh) : LOW :0.						D: 755915 ed: 05/15/9
Co	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UG	5/L_
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-50-8	Copper	1.3	<b>1</b> 77	<del></del>	声	
	7439-89-6	Iron	41000			P_ P_	
4	7439-92-1	Lead	3.1	B		P	
	7440-23-5	Sodium	441000	_		P_	
	7440-66-6	Zinc	174	_	<u></u>	P_	
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NEI FORM 1 - (9/93)

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

ab Name: NYTEST_ENV_INC		Contract:	9622307		
Lab Code: NYTEST Login	No.: 27559_		QC Report	No.: OU1B_	_
nitial Calibration Source:	SPEX				
Continuing Calibration Source	: SPEX				

Concentration Units: ug/L

Analyte	Initia True	al Calibra Found		True	Continui: Found			%R(1)	M
-	<b>\</b>		• •	1.1		• •		,	
Copper	1000.0	1002.24	100.2	3000.0	2936.27	97.9	2943.65	98.1	P_
Iron	5000.0	5003.88	100.1	25000.0	24874.76	99.5	24929.71	99.7	P
Lead	1000.0						485.32		P
Sodium		10938.54				96.9	$\overline{27}297.10$		P_ P_ P_
Zinc		_1001.52			2924.55				P_
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NR : Analyte Not Required

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## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Tab	Name:	NYTEST_ENV	_INC		Contract:	962230	7		
ab	Code:	NYTEST	Login N	o.: 27559_		QC	Report	No.:	OU1B_
ni	tial Ca	alibration	Source:	SPEX					
Con	tinuing	g Calibrati	on Source:	SPEX				•	

Concentration Units: ug/L

	Initial	Calibra	ation		Continui				Ш
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	1
Copper				3000.0	_2938.99	_98.0	_2931.33	97.7	P
Iron				25000.0	24860.69	_99.4	24978.34	99.9	P
Lead				500.0		96.5	476.91	95.4	P
Sodium				27500.0	28368.23	103.2	26371.91	95.9	P
Zinc				3000.0	_2856.37	_95.2	_2827.94	_94.3	P
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WR : Analyte Not Required

NEI FORM 2 - (9/93)

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC	<del></del>	Contract:	9622307		
Lab Code: NYTEST Login N	o.: 27559_		QC Peport	No.:	OU1B_
[nitial Calibration Source:	SPEX	····			
Continuing Calibration Source:	SPEX	<u>.</u>	•		

Concentration Units: ug/L

Analyte	Initial True	Calibr Found	True	Continui: Found		ibration Found	%R(1)	1
Copper Iron Lead Sodium Zinc			25000.0 500.0 27500.0	_2929.82 25001.88 _475.01 27217.86 _2819.02	100.0 _95.0 _99.0	24909.81 472.05 25957.51	_99.6 _94.4 _94.4	P P P P
								-

NR : Analyte Not Required

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Tab Name: NYTEST_ENV_INC	Co	ontract:	9622307		
Lab Code: NYTEST Login N	10.: 27559_		QC Report	No.:	OU1B_
nitial Calibration Source:	SPEX				
Continuing Calibration Source:	SPEX	• .			

Concentration Units: ug/L

Analyte	Initia True	al Calibra Found		True	Continuing Found	ng Cal: %R(1)	ibration Found	%R(1)
Copper								
Lead_ Sodium Zinc	_11000.0	11350.00	103.2	_27500.0	26464.43	_96.2	25191.59	_91.6

NR : Analyte Not Required

NEI FORM 2 - (9/93)

### CRDL STANDARD FOR AA AND ICP

Tab Name: NYTEST_ENV_INC	Contract: 9622307
Lab Code: NYTEST Login No.: 27559_	QC Report No.: OU1B
A CRDL Standard Source: SPEX	
ICP CRDL Standard Source: SPEX	

Concentration Units: ug/L

	CRDL St	andard fo	r AA	1 1	CRDL Star	ndard f	or ICP	
					Initial	Final	L	
\nalyte	True	Found	%R	True		%R	Found	₹R
Copper				50.0	52.91	105.8	53.67	_107.3
ron				6.0	7.05	117.5	6.11	_101.8
odium				40.0	40.01	100.0	38.77	96.9
							<del></del>	

### ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST\_ENV\_INC\_\_\_\_ Contract: 9622307\_\_\_

Lab Code: NYTEST Login No.: 27559\_

QC Report No.: OU1B\_\_

reparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

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Analyte	Initial Calib. Blank (ug/L)	С	Cont.	in B	uing Calib lank (ug/L 2	ra ) C	tion 3	С	Prepa- ration Blank C M
Copper	-2.0	В	-1.7	В	1.3	U	1.3	บ	-8.370 B P
Iron	10.8	U	10.8	บิ	11.2	В	10.8	Ū	
Lead	1.5	U	1.5	บ	1.5	U	1.5	บ	
Sodium	566.0	U	566.0	Ū	566.0	Ū	566.0	Ū	
Zinc	-2.6	В	2.1	U		U	2.1	U	
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

### ANALYTICAL AND METHOD BLANK SUMMARY

™ab	Name:	NYTEST_I	ENV_INC	Contract:	9622307				
ab	Code:	NYTEST	Login No.: 27559_		QC Report	No.:	OU1B_		
re	paratio	on Blank	Matrix (soil/water):						
Prei	paratio	on Blank	Concentration Units (ug/	L or ma/ka	١:				

Analyte	Initial Calib. Blank (ug/L)	C	Cont	ini Bi	ling Calib lank (ug/L 2	rai	tion 3	С	Prepa- ration Blank C	м
CopperIron LeadSodiumZinc			1.3 96.6 1.5 566.0 2.3	U B U U B	1.3 34.4 1.5 566.0 2.1	U B U U U		B B U U B		P P P P
		-								
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

### ANALYTICAL AND METHOD BLANK SUMMARY

Tab	Name:	NYTEST_	ENV_INC	Contract:	9622307		
Lab	Code:	NYTEST	Login No.: 27559_		QC Report	No.:	OU1B_
_re	paratio	on Blank	Matrix (soil/water):				
Pre	paratio	n Blank	Concentration Units (ug/	L or mg/kg	):		

Analyte	Initial Calib. Blank (ug/L)	С		int Bl C	uing Calib lank (ug/L 2	rat	tion 3	C	Prepa- ration Blank C	м
Copper Iron Lead Sodium Zinc	566.0	-  -   <del> </del>    -	566.0_	_ _ _ _ _	566.0_	_ - ซิ		  -  -		NR_ NR_ NR_ P NR_
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

### ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	NYTEST_ENV_	INC	Contract:	9622307	
ab	Code:	NYTEST	Login No.: 27559_	•	QC Report No.:	OU1B
ICP	ID Numl	per: 61		ICS Source	: EPA	

Concentration Units: ug/L

Analyte	Sol.	rue Sol. AB	Ini Sol. A	tial Found Sol. AB	Final Found Sol. Sol. A AB %R			
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<del></del>			
Copper Iron								
Lead								
Sodium	0	0	9			307	78.6	
Zinc								
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NEI FORM 5 - (9/93)

### ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	NYTEST_ENV_	NYTEST_ENV_INC			9622307	9622307			
ab	Code:	NYTEST	Login No.: 2755	9_		QC Report No.:	OU1B			
ICP	ID Numl	ber: 61			ICS Source	: EPA				

Concentration Units: ug/L

Analyte	Sol.	rue Sol. AB	itial Found Sol. AB	Final Found Sol. Sol. A AB %R			
Copper Iron Lead Sodium Zinc	o	0	 96.8		113	46.1	

NEI FORM 5 - (9/93)

### ICP INTERFERENCE CHECK SAMPLE

Lab Name:	b Name: NYTEST_ENV_INC			9622307	
Lab Code:	NYTEST	Login No.: 27559_		QC Report No.:	OU1B_
ICP ID Num	ber: TRACE_		ICS Source	: EPA	

Concentration Units: ug/L

	To Sol.	rue Sol.	In:	itial Found	Final Found Sol. Sol.			
Analyte	A	AB	A	AB	%R	A	AB	%R
Copper Iron Lead	200000 0	500 _200000 1000	0 _199867 -28	529.8 _204079.9 _974.1		3 _201298 _34	530.6 _204517.7 941.2	102.3
Sodium Zinc	71	1000		947.7	_94.8		908.7	

			NY	rest i	ENVIRONMENTAL :	INC.				
•			MATRIX	SPIKI	E RECOVERY DATA	A SHEET		SAMPLE N	٥.	
	- h - N	WINDOM T	W. TV6		Cambrants	0622207		W-7SMSD	)	
	ap Name:	NYTEST_E	NV_INC		Contract:	9622307_				
	Tab Code:	NYTEST	Login No	o.: 27	7559_	QC R	eport	No. : 0	U1	B
	matrix (so	il/water	): WATER_			Leve	1 (10	w/med):	LO	w
	Solids f	or Sample	e:0.0							
		Concent	ration Units	(ug/L	or mg/kg dry	weight):	UG/L_			
	Analyte	Control Limit %R	Spiked Samp	le R) C	Sample Result (SR)	Spi C Added		%R	Q	]
	Copper	75-125	227.470	00	1.3000	<u>U</u> 2	50.00	91.0	-	P
	Iron	75-125_	3934.760	00_ _	3109.1700		00.00			P
	Lead	75-125_	484.780	<sup>)0</sup> _ _	1.5000	ַ5	00.00	97.0	_	P
	Sodium			_	05 1100		00.00	- 105 6	_	NI
	Zinc	75-125_	564.230	"- -	25.1100	-  <sup>2</sup>	00.00	107.8	-	P_
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omments: W-7SMSD			

NR : Analyte Not Required

NEI FORM 6 - (9/93)

SAMPLE	NO	
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	DUPLICATES				
ab Name: NYTEST_ENV_	INC	Contract: 9622307	W-7SMS		
ab Code: NYTEST	Login No.: 27559	_ QC Rep	oort No. : OU1B		
<pre>matrix (soil/water):</pre>	WATER	Level	(low/med): _LOW		
Solids for Sample:	0.0	% Solids for	Duplicate:0.0		

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	М
Copper		1.3000	Ū	1.3000				P_
Iron	.	3109.1700	_	3100.4500	_	0.3_	1_	P_
Lead		1.5000	U	1.5000	ן ט		_	P_
Sodium		2408000.0000	_	2435425.0000	_	1.1_	_	P_
Zinc	20.0_	25.1100	_	43.4800	_	53.6	-	P_
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NR : Analyte Not Requested

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### LABORATORY CONTROL SAMPLE

Lab Nam	e: NYTEST_EN	V_INC	Contract:	9622307		
ab Cod	le: NYTEST	Login No.: 27559_		QC Report	No.:	OU1B
Solid I	CS Source:					
acueous	LCS Source:	SPEX				

Analyte	Aque True	eous (ug/] Found	L) %R	True	Sol: Found	id C	(mg/kg) Li	mits	%R
Copper_	1500.0	1469.10	97.9			Π	040-	T	
Iron	11000.0	10740.81	97.6			-			
Lead		998.04				-			
Sodium	10000.0	10380.20	103.8			_			
Zinc		971.93				-			
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ICP SERIAL DILUTION

CA	MD	TE	NO.
	411	LAG	TAC 1 .

W-7SL

Lab Name: NYTEST\_ENV\_INC\_\_\_\_\_ Contract: 9622307\_\_\_\_

Lab Code: NYTEST Login No.: 27559\_

QC Report No.: OU1B\_

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

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i	1	i	Serial	i	8	i	j i
	Initial Sample	ŀ	Dilution	-	Differ-	1	
Analyte	Result (I)	C	Result (S)	C	ence	Q	M
		ŀ		- !	!		
Copper	1.30	ਹ !	6.50	וס!		1-	P
Iron	3109.17	-	3093.75	-	0.5	1-	P_
Lead	1.50	<u></u>	7.50	0		-	$_{\rm P}^{-}$
Sodium	2408000.00	7	2323425.55	1	3.5	-	p-
Zinc	25.11	-1	27.15	<u>=</u>	8.1	-	5-1
ZINC	<sup>25.11</sup>	-1	<sup>2</sup> /·15		°-1	1-1	P-1
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### Instrument Detection Limits (Quarterly)

ab Name: NYTEST_EN	NV_INC	Contract:	9622307			
Lab Code: NYTEST	Login No.: 27559_		<del></del>	SDG No	.:	OU1B_
_CP ID Number:	TRACE	Date:	04/16/9	6		
lame AA ID Number			·			
Furnace AA ID Numbe	er:				`	

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Analyte	Wave- length (nm)	Back- ground	CRDL (ug/L)	IDL (ug/L)	M
Copper	324.75		25	1.3	P
Iron	271.44		100	10.8	P
Lead	220.35		5	1.5	P
Sodium			5000		NR
Zinc	206.20		20	2.1	P
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omments:	

NEI FORM 12 - (9/93)

Instrument Detection Limits (Quarterly)

Tab Name: NYTEST_ENV_INC	Contract: 9622307
Lab Code: NYTEST Login No.: 27559_	SDG No.: OU1B
CP ID Number: 61	Date: 04/16/96
Flame AA ID Number :	
urnace AA ID Number :	

				*	
Analyte	Wave- length (nm)	Back- ground	CRDL (ug/L)	IDL (ug/L)	м
Copper			25		NR
Iron			100		NR
Lead			5		NR
Sodium	588.99		5000	566.0	P
Zinc			20		NR
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omments:				
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NEI FORM 12 - (9/93)

GENERAL CHEMISTRY DATA

# **REPORT OF ANALYSIS**

Log In No.: 27559

We find as follows:

CLIENT ID	LAB ID		Biochemic Oxygen Demand mg/L		Chemical Oxygen Demand mg/L	Color Pt - Co	Surfactants mg/L	Ammonia Nitrogen mg/L
W-5S	2755901		30.6	3420	303	60	0.85	22.6
W-5G	2755902		25.3	207	267	300	1.16	106
W-6S	2755903		19.5	3570	297	400	0.53	10.2
W-6G .	2755904		5.3	36.8	97.8	300	0.88	65.1
W-6R	2755905		11.3	3260	331	200	2.50	0.308
FB-01	2755906		3.0 U	1.0 U	3.0 U	40	0.05 U	0.05 U
W-8S	2755907		3.0 U	4090	376	200	0.43	5.19
W-7S	2755908		8.3	3230	355	200	0.88	29.1
W-8R	2755911		7.5	4570	299	300	0.72	6.01
W-7R	2755912	1 .	7.3	4700	324	200	0.23	6.76
DUP	2755913		7.3	4310	333	300	0.38	6.63
₩~7G	2755914		84.7	1080	1340	400	1.23	297
W-8G	2755915		38.0	654	871	1500	1.93	199
Method B	lank		3.0 U	1.0 U	3.0 U	10 U	0.05 U	0.05 U

CLIENT	LAB ID	Nitrate mg/L	Phenol mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L
W-5S	2755901	0.06	0.104	65.8	7830	31.4
W-5G	2755902	0.04 U	0.003	159	1160	64.0
W-6S	2755903	0.06	0.035	22.1	6890	49.2
₩-6G	2755904		0.0035 U	113	305	21.5
W-6R	2755905		0.0035 U	307	9580	27.4
FB-01	2755906		0.0035 U	3.0 U	430	1.0 Ü
W-8S	2755907		0.0035 U	237	8990	26.1
W-7S	2755908	0.06		159	949	41.0
W-8R	2755911		0.0035 U	384	9550	26.4
W-7R	2755912		0.0035 U	490	10300	21.7
DUP	2755913	0.11	0.0035 U	472	9670	21.9
$\tilde{W}-7G$	2755914	0.04 U	0.279	366	3800	252
W-8G	2755915	0.04 U	0.325	56.6	1890	204
Method E	Blank	0.04 U	0.0035 U	3.0 U	10 U	1.0 U

<sup>\*\*</sup>Please Note: The fecal Coliform, Fecal Strep and Total Coliform tests could not be performed, because no sample was received for these tests.

CLIENT : Emcon

Lea In Number: 27559

PARAMETER	•	Duplicate Sample Result	Z RPD	Sample Result for spike	Spike Added	Spike + Sample Result	Z Spike Recovered	Sample for QC from same sample? (dup/spike)
Biochemical Oxygen Demand, mg/L	8.3	23.7	96.3	8.3	198	200	<b>9</b> 6.9	YES/YES
Chloride, mg/L	3230	3220	0.3	3230	400	3620	97.5	YES/YES
Chemical Oxygen Demand, mg/L	355.4	359.9	1.3	355.48.	250	622.1	106.5	YES/YES
Color, Pt-Co	1500	1500	0.0					YES
Surfactants, mg/L	0.88	0.89	1.1	0.88	0.60	1.54	110.0	YES/YES
Ammonia, Nitrogen, mg/L	29.13	29.42	1.0	29.13	10.0	38.5	93.7	YES/YES
Nitrate, Nitrogen, mg/L	0.04 U	0.04 U	NC	0.04 U	2.50	2.40	96.0	YES/YES
Phenols, mg/L	0.003 U	0.0034	NC	0.003 U	0.100	0.084	84.0	NO/NO
Sulfate, mg/L	159.2	163.8	2.8	159.2	400	527	92.0	YES/YES
Total Dissolved Solid, mg/L	146	156	6.6	146	20	166	100.0	NO/NO
Total Organic Carbon, mg/L	41.0	40.9	0.2	41.0	100.0	127.1	86.1	YES/YES

NC : Non-calculable

NA: Non-Available

E: Above method limit

U : Below method reporting limit



TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

NYTEST ENVIRONMENT inc.

box 1518 = 60 seaview blvd., port washington, ny 11050 = (516) 625-5500 = fax (516) 625-1274

June 27, 1996

Emcon 1433 North Market Blvd., Suite 2 Sacramento, CA 95833

Attn: Susan Hopper A/P Dept.

Ref : Kin-Buc LF 12568001000, OFF71-37-37.37.37

P.O. #: 3700053

Nytest Environmental, Inc., is pleased to submit our Project Number 9522307 for Login Number 27560, 27579, SDG No. OU2, on your sample(s) received 05/15/96.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

- Michael Irmoil

Mike Shmookler, Ph.D.,

Laboratory Operations Manager

Nytest Environmental, Inc.

Report to: EMCON

Corporate Crossroads Park

1 International Blvd., Suite 700

Mahwah, NJ 07495 Attn: Rich Calagero

Encl:

Shipped Via:

NYS Lab ID#10195 NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to lot sampled. Information contained herein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

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#### NYTEST ENVIRONMENTAL Inc.

SDG: OU2

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2756001 2756002	RR-01 RR-02	Water Water
2756003	RR-03	Water
2756004	RR-04	Water
2756005	WE-10S	Water
2756006	WE-10R	Water
2756007	GEI10G	Water

#### NYTEST ENVIRONMENTAL Inc.

SDG: OU2

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2757901	WE-3S	Water
2757902	GEI-3G	Water
2757903	WE-3R	Water
2757904	WE-7R	Water
2757905	WE-7S	Water
2757906	WE-6R	Water
2757907	GEI-6G	Water
2757908	GEI-6S	Water
2757909	WE-5S	Water
2757910	DUP	Water
2757911	WE-5R	Water
2757912	GEI-5G	Water
2757913	GEI-5GMS	Water
2757914	GEI-5GMSD	Water
2757915	WE-114D	Water
2757916	FB-03	Water

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	(516) 625-5500	FAX: (516) 625-1274	$\mathbf{C}$	hai	n of	Cu	isto	dy I	Rec	ord	page".
Client Name	EMUN							uested			Login #: <u>375-0</u>
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	Tuxelo,	NY 10987									Nytest Environmental Inc.
				1/	in Buc	0	ارسار	11			60 Seaview Blvd Port Washington N.Y. 11050
Project Manage	r R. Gloger	,				_	7 ~ (	7.7			Attn.: Sample Control
Phone	914 357 5102	PAX 114 351 5799 Querterly	Containers	Pa	ramet	12.	1,	M	,		Date Shipped:
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# NYTEST ENVIRONMENTAL INC.

# INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	NAME: Michael Lon	TITLE: S.C.
Client:	Date Broken 5/16/16	Military Time Seal Broken:
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# NEI INTERNAL CHAIN OF CUSTODY RECORD

LOGIN_						
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#### LABORATORY DELIVERABLES

Complete 1. Cover page, Title page listing Lab Certification# facility name & address, & date of report 2. Table of Contents 3. Summary sheets listing analytical results for all targeted and non-targeted compounds Summary Table cross-referencing field ID #'s 4. vs. Lab ID #'s Document bound, paginated and legible 5. 6. Chain of Custody 7. Methodology Summary Laboratory Chronicle and Holding Time check 8. Results submitted on a dry weight basis (if 9. applicable) Method Detection Limits 10. 11. Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP 12. Non-Conformance Summary 6/28/96 Medail Timere & Laboratory Manager or Environmental Date

Consultant's Signature

Check if

### METAL AMALYSIS COMPORNANCE/MON-COMPORNANCE SUMMARY FORVAT

		No	<u>Yes</u>
1.	Calibration Summary Meet Criteria		2
2.	ICP Interference Check Sample Results Summary Submitted (if applicable) / Meet Criteria		<u></u>
3.	Serial Dilution Summary Submitted (if applicable) / Meet Criteria		
4.	Laboratory Control Sample Summary Submitted (if applicable) / Meet Criteria		\ <del>\</del>
5.	Blank Contamination - If yes, list compounds concentrations in each blank:	<u>`</u>	
6.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries which fall outside the acceptable range)		<u></u>
7.	Extraction Holding Time Het  If not met, list number of days exceeded for each sample:		<u></u>
8.	Analysis Holding Time Met		<u> </u>
	If not met, list number of days exceeded for each sample:		
Addit	ional Comments:		
Labor	atory Manager: Michaelth model Date: 6/28	196	

#### Laboratory Chronicle

Client Name: Emcon Date Received: 05/10/96

Sample ID: As per chain of custody

Inorganics:	Digested: 05/17/96, 06/03/96
*****	1. Metals
	Analyzed: 05/20/96, 05/21/96, 06/20/96, 06/27/96  2. Metais
	06/06/96, 06/07/96
	3. Phenol
Other Analysis:	Ammonia Nitrogen: 05/17/96, 05/23/96
	BOD: 05/16/96, 05/17/96
	Chloride: 06/10/96, 06/11/96
	COD: 05/20/96, 06/04/96
	Color: 05/17/96, 05/18/96
	Fecal Coliforms, Fecal Strep, Total Coliforms: 05/16/96
	Sulfate: 05/30/96, 05/31/96
	TDS: 05/22/96, 05/24/96, 05/27/96 - 05/29/96
	Toc: 06/11/96
	Surfactants: 05/16/96, 05/17/96
	Nitrate: 05/21/96, 06/03/96
	Section Supervisor Michaellinus
	Section Supervisor  Review & Approval  Quality Control Supervisor  Review & Approval  Machaellimat

Dates are included for re-extractions and reanalysis.

Log In No.: 27560, 2

Case Narrative Wet Chemistry

SDG No.: OU2

#### Coliform Data

Sample WE-5S was determined to contain 8000 colonies/100ml. Sample DUP was determined to be 1.0U. Confirmation of this anomaly could not be performed because of the short holding time of this analysis.

# CASE NARRATIVE METALS

Login	No:	27560	SDG No:	OU2
TOG 111	110.	27300	SDG NO.	<u> </u>

#### HOLDING TIMES

All samples associated with this SDG/LOGIN were prepared and analyzed within the specified holding time.

#### CALIBRATIONS

All ICV and CCV standards meet QC criteria.

The percent recovery of all components in the CRDL standard recovered within NEI control limits of  $\pm$  50%. Note that CLP SOW ILM03.0 does not specify control limits for the CRDL standard.

#### BLANKS

All preparation blanks and calibration blanks associated with these analyses meet QC criteria.

#### MATRIX SPIKES

Sample 2755908 was utilized as the matrix spike sample for these analyses.

Site specific QC was not requested for this login, therefore, batch QC is being supplied. Note that any matrix effects demonstrated by the batch QC sample may not be indicative of any potential matrix effects associated with the samples from this login.

All matrix spike recoveries met the 75-125% recovery criteria.

#### **DUPLICATES**

Sample 2755908 was utilized as the duplicate sample for these analyses.

Site specific QC was not requested for this login, therefore, batch QC is being supplied. Note that any matrix effects demonstrated by the batch QC sample may not be indicative of any potential matrix effects associated with the samples from this login.

All Relative Percent Differences (RPDs) met QC criteria.

Note that all RPDs of 200% are due to one analyte being reported above the Instrument Detection Limit (IDL) and one result below the IDL.

#### LABORATORY CONTROL SAMPLE (LCS)

The percent recovery of all components in the LCS met QC criteria.

#### SERIAL DILUTION

A serial dilution was performed on sample  $\underline{2755908}$ . All percent differences (%D) were within the  $\pm$  10% acceptance limits.

#### SAMPLES

All samples were analyzed in accordance with the requirements of the methods described in SW-846 Method 6010A.

No further analytical problems were encountered.

#### SPECIAL PROJECT NOTES

None.

# CASE NARRATIVE METALS

Login No: <u>27579</u> SDG No: <u>OU2</u>

#### HOLDING TIMES

All samples associated with this SDG/LOGIN were prepared and analyzed within the specified holding time.

#### CALIBRATIONS

All ICV and CCV standards meet QC criteria. The percent recovery of all components in the CRDL standard recovered within NEI control limits of  $\pm$  50%. Note that CLP SOW ILM03.0 does not specify control limits for the CRDL standard.

#### **BLANKS**

All preparation blanks and calibration blanks associated with these analyses meet QC criteria.

#### MATRIX SPIKES

Sample <u>GEI-5G</u> was utilized as the matrix spike sample for these analyses.
All matrix spike recoveries met the 75-125% recovery criteria.

#### **DUPLICATES**

Sample <u>GEI-5G</u> was utilized as the duplicate sample for these analyses.

All Relative Percent Differences (RPDs) met QC criteria. Note that all RPDs of 200% are due to one analyte being reported above the Instrument Detection Limit (IDL) and one result below the IDL.

#### LABORATORY CONTROL SAMPLE (LCS)

The percent recovery of all components in the LCS met QC criteria.

#### SERIAL DILUTION

A serial dilution was performed on sample <u>GEI-5G</u>. All percent differences (%D) were within the ± 10% acceptance limits.

#### SAMPLES

All samples were analyzed in accordance with the requirements of the methods described in CLP SOW ILM03.0. No further analytical problems were encountered.

#### SPECIAL PROJECT NOTES

None.

I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.

Michael Thronis-

Michael Shmookler, Ph.D. Laboratory Operations Manager

AQUEOUS METHODOLOGIES:	REF 1	REF 2	REP 3	REF 5
BMA, Pesticides/PCB's Extraction	<del></del>	3510/3520	·	
AA/ICP Sample Preparation	200.7			
Furnace Sample Preparation	200.0			
Mercury Sample Preparation	245.1			
Bexavalent Chromium Sample Preparation				
Clean-Up		3610/3620/3630 3640/3660	/	
Organochlorine Pesticide and PCB's		•		
by Gas Chromatography			608	505
Herbicides by Gas Chromatography			362	515.1
Purgeable Organics by GC/MS			624	524.2
Base/Neutral, acids by CC/MS			625	525
2,3,7,8-TCDD by GC/MS			613/625	
BTEX			602	502.2
EDB/DBCP by Microextraction				504.1
NON-AQUEOUS HETHODOLOGIES:			•	
BMA, Pesticides/PCB's Extraction		3550		
AA/ICP Sample Preparation		3050		
Furnace Sample Preparation	3	1020/3030/3050		
Mercury Sample Preparation		7471		
Clean-Up	3	610/3620/3630/		
		3640/3660		
GC, Gas Chromatography/Mass Spectrometry:				
Purgeable Organics		8240/8021		
Base/Neutral and Acid Extractables		8270		
Organophosphorus Pesticides		8140		
Organochlorine Pesticide and PCB's				
by Gas Chromatography		8080		
BTRX		8020		
Halogenated Purgeable Organics		8010		

INDUCTIVELY COUPLED PLASMA (ICP):	REFERENCE 1	REFERENCE :
Alusinus	200.7	6010
Antimony	200.7	6010
Barium	200.7	6010
Beryllium	200.7	6010
Cadmium	200.7	6010
Calcium	200.7	6010
Chronium	200.7	6010
Cobalt :	200.7	6010
Copper ,	200.7	6010
Iron		6010
Lead	200.7	
Magnesium	200.7	6010
Hanganese	200.7	6010
Molybdenus	200.7	6010
Nickel	200.7 200.7	6010
Potassium		6010
Silver	200.7	6010
Sodium	200.7	6010
rin	200.7	6010
ritanium	200.7	6010
/anadium	200.7	6010
line	<b>200.</b> 7 <b>20</b> 0.7	6010 6010
FURNACE AA:	200.7	6010
VICENTS		
untimony	204.1	7041
rsenic	206.2	7060
ead	239.2	7421
elenium	270.2	7740
hallium	279.2	7841
in	282.2	
anadium	286.2	7911
ercury	245.1	7470/7471
CAP:		
<del></del>		
riority Pollutants	200.7	6010/7060/
AL Metals	200.7	7470/7740 6010/7060/
CRA Metals	200.7	7470/7740 6010/7060/
		7470/7740
	000018	, 4, 0, 1, 10

ADDITIONAL INORGANIC PARAMETERS:	REFERENCE 1	REFERENCE 2
Biochemical Oxygen Demand	405.1	
Bromide	320.1	
Color	110.2	
Conductance	120.1	
Conductance		9050
Odor	140.1	7030
Pil	150.1	
pH .	230.2	9045/9040/904
TDS	160.1	3043/3043/30
<b>TSS</b>	160.2	
TS	160.3	
Hardness :	130.1	
Temperature	• •	•
Turbidity	170.1	
Acidity	180.1	
Alkalinity	305.1	
Amonia	310.1	
Chloride	350.2/350.3	
Chloride	325.3	
Residual Chlorine		9252
COD Kesignal Culorine	330.2	
<del></del>	410.3/410.4	
Cyanide (Total & Amenable)	335.3/335.1	9010/9012
Oil & Grease	413.1/413.2	
Oil & Grease		9070/9071
Pluoride	340.2	
	351.2	
MC2/MC3	353.2	9200
0.0	360.2	
Petroleum Hydrocarbons (Reference 4)	418.1	9066
Phenol	420.2	
Phosphorus	365.1	
Settleable Solids	160.5	
Silica	370.1	
Sulfate	375.2/375.4	9038
Sulfide Sulfide	376.1	9030
durfactants	425.1	
roc	415.1	9060
ox.		9020
ISCELLANEOUS ANALYSIS:		
xtraction Procedure Toxicity		1310
gnitability		1010
orrosivity		1110
eactivity		
aint Filter Liquid Test		Chapter 8.3
oxicity Characteristic Leaching		9095
Procedure (TCLP)		(REP 4)
ation Exchange Capacity of Soils	000019	9080

	REFERENCE 6
Total Coliform	909A
Pecal Coliform	9096
Fecal Streptococcus Coliform	910B
Standard Plate Count	907
Hexavalent Chromium	312B
Carbonaceous BOD	507

#### REFERENCES:

- (1) USEPA-600/4-79-020, Methods for Chemical Analysis of Water and Was
- (2) USEPA SW 846, Test Methods for Evaluating Solid Waste, Third Editic
- (3) Federal Register 40 CFR Part 136, Vol.49, No.209 Test Parameter for the Analysis of Pollutants
- (4) Federal Register Vol.51, No.216 Friday, 11/7/86, pp.40643-40652
- (5) Method for the Determination of organic Compounds in Drinking Water, EPA 500/4-88/039, Dec. 1988
- (6) Standard Method for Examination of Water and Wastewater, 15 Edition 190

# nytest environmental...

#### Method Qualifiers for Inorganics

FORM I-IN includes fields for three types of results qualifiers. These qualifiers must be completed as follows:

- \*C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.
- \* Q qualifier -- Specified entries and their meanings are as follows:
  - E The reported value is estimated because of the presence of interference.
  - M Duplicate precision not met ( CV > 20% ).
  - N Spiked sample recovery not within control limits.
  - S The reported value was determined by Method of Standard Addition (MSA).
  - W Post-digestion spike for Furnace AA analysis is out of control limits (85 115%), while sample absorbance is less than 50% of spike absorbance.
  - \* Duplicate analysis not within control limits.
  - + Correlation Coefficient for the MSA is less than 0.995.

    Entering "S", "W" or "+" is mutually exclusive.
- \* M (Method) qualifier enter:
  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "CV" for Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - "NR" if the analyte is not required to be analyzed.

METALS DATA

### NYTEST ENVIRONMENTAL INC.

#### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Lab Name: NYTEST_E		<del></del>	622307 QC Report	RR-01
Lab Code: NYTEST  Matrix (soil/water Level (low/high) Percent Solids:  Concen	): WATER : LOW	<del>-</del>	Lab Sample Date Rece	e ID: 756001 ived: 05/15/96
744 743 743 744	No. Analyte  0-50-8 Copper  9-89-6 Irch  9-92-1 Lead  0-23-5 Sodium  Zinc	Concentration  4.0 2670 7.3 25400 54.6	B I	M P P P P P P P P P P P P P P P P P P P
Note: A "U" in to not detected in	GFAA; CV: Cold the "C" (Concentration this sample; "B", but less than r	ration) column : ' = Sample value	indicates t greater t	the analyte was

# NYTEST ENVIRONMENTAL INC.

#### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

ab Name: N	YTEST_ENV_INC_	· · · · · · · · · · · · · · · · · · ·	Contract: 9	622	307	_  _		₹R-02	
ab Code: N	YTEST Log	in No.: 27	560_	QC	Repor	t N	o.0U2	2	
evel (low/h	<pre>l/water): WATE nigh) : LOW ids :0.</pre>	0	/L or mg/kg dr	Da	nb Samp nte Rec	eiv	ed: (		
	CAS No.	Analyte	Concentration		·	м	   		
	CAS NO.	Analyce	Concentration		Q	M	<u> </u>		
	7440-50-8	Copper	6.1	B	<del>,</del>	P			
	7439-89-6	Iron	5070	$\lfloor _{-}  floor$		P			
		Lead	15.2	_		P_			
		Sodium_	19100	_		P_			
	7440-66-6	Zinc	78.4			P_	1		
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CODES :	l	1		1_1		l	l		
P: ICP; Note: A " not detec	'U" in the "C" cted in this s	(Concentrample; "B"	Vapor; AS: Autation) column in a sample value eporting limit;	ind ≥ q	icates reater	the	ana an In	lyte stru	was ment

A REPORT OF THE PROPERTY OF

# NYTEST ENVIRONMENTAL INC.

RR-03			INORGANICS	ANALISIS DATA	SHEET	SAMPLE NO.
DOES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometrix Note: A "U" in the "C" (Concentration) clumit, but less than reporting limit; "NR" = Not Required. ments:    Cold Note: A "U" in the "C" (Concentration) clumin timit, but less than reporting limit; "NR" = Not Required. ments:    Cold Note: A municipal substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant of the substant o	Lab Name: NYT	EST ENV INC		Contract: 9	622307	RR-03
Lab Sample ID: 756003   Nate   Nate   Lab Sample ID: 756003   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   Nate   N						No OWO
Date Received: 05/15/96   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Concentration   Co	Lab Code: NYT	EST Log	in No.: 27	560_	QC Report	NO.002
Cas No.	Level (low/hi	gh) : LOW				
CAS No.  Analyte Concentration C Q M  7440-50-8 7439-89-6 1ron 1400 P- 7449-23-5 7440-66-6 Zinc 82.9 P- 7440-66-6  P- 7440-66-6 Zinc 82.9 P-  P-  The concentration C Q M  P- P- P- P- P- P- P- P- P- P- P- P- P-	•					•
CAS No.  Analyte Concentration C Q M  7440-50-8 7439-89-6 1ron 1400 P- 7449-23-5 7440-66-6 Zinc 82.9 P- 7440-66-6  P- 7440-66-6 Zinc 82.9 P-  P-  The concentration C Q M  P- P- P- P- P- P- P- P- P- P- P- P- P-						
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometri Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.	С	oncentration	Units (ug	/L or mg/kg dr	y weight):	UG/L_
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometri Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.			<u> </u>			
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometring Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument ments:		CAS No.	Analyte	Concentration	C Q I	1
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometring Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument ments:		7440-50-8	Copper	1.3		5
ODES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometri Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  mments:		1				_
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometri Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  mments:		I				
ODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometri Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  mments:						[
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:		7440-66-6	Z111C	02.9	-  -	-
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						·
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:					-	_
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:					-  -	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:					-	•
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:					-  -	-
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:		***************************************				
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:	,				-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:					-	
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:						
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometric Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:	CODES .	1	l		_	!
Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.mments:		F : GFAA;	CV: Cold	Vapor; AS: Aut	comated Spe	ctrophotometri
Detection Limit, but less than reporting limit; "NR" = Not Required. mments:	Note: A "U	" in the "C"	(Concentr	ation) column i	indicates t	he analyte was
mments:						
		Limit, put 1	ess than r	eporting limit	; "NR" = Nc	r kequired.
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## NYTEST ENVIRONMENTAL INC.

#### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

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h Namo: NVMI	CT PNV INC		Contracts	62220	<b>,</b>	1	RR-04
ab Name: NYTEST_ENV_INC			_ Contract: 9622307				
b Code: NYTE	b Code: NYTEST Login No.: 2			QC R	eport	No.OU	2
trix (soil/w vel (low/hig rcent Solids	(h) : LOW			Lab : Date	Sample Recei	P ID:	756004 05/15/9
Cc	ncentration	Units (ug	/L or mg/kg dr	y wei	ght):	UG/L_	
	CAS No.	Analyte	Concentration	c	Q M	1	
	7440-50-8	Copper	1.3	[편]	Ē	5	
	7439-89-6	Iron	930			2	
	7439-92-1	Lead	1.8	В		2_	
	7440-23-5		18600	-		3-	
	7440-66-6	Zinc	29.3	-	-	<b>-</b>	
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DEC .				l <u> </u>	l _	_1	
DES :	F : GFAA:	CV: Cold	Vapor; AS: Aut	comate	ed Sne	ectroni	otomet
Note: A "U"	in the "C"	(Concentr	ation) column	indica	ites t	he ana	lvte w
not detecte	d in this s	ample; "B"	= Sample value	grea	ater t	han Ir	strume
Detection L	imit, but 1	ess than r	eporting limit;	, "NR'	' = Nc	t Requ	ired.
ments:							
RR-04							
RR-04		<u>.</u>					

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## NYTEST ENVIRONMENTAL INC.

#### INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

Lab Name: NYTE	ST_ENV_INC_		Contract: 9	6223	07		WE-10S
Lab Code: NYTE	ST Log	in No.: 27	560_	QC	Repor	t No.	OU2
Matrix (soil/w Level (low/hig Percent Solids	h) : LOW :0.	0	/L or mg/kg dry	Dat	e Rec	eived	0: 756005 l: 05/15/96
	CAS No.	Analyte	Concentration	С	Q	м	
Note: A "U" not detected Detection L Comments:	7439-92-1 7440-23-5 7440-66-6	(Concentrate)  ample; "B"	Vapor; AS: Autation) column is sample value eporting limit;	U	cates eater	the than	analyte was Instrument

Lab Name: NYTEST\_ENV\_INC\_\_\_\_ Contract: 9622307

#### NYTEST ENVIRONMENTAL INC.

#### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

WE-10R

Lab Code: NY	rest Log	in No.: 27	560_	QC	Repor	t No.OU	2
Matrix (soil, Level (low/hi Percent Solid						ole ID: eived:	756006 05/15/96
		*					
C	Concentration .	Units (ug	/L or mg/kg dr	y w	eight)	: UG/L_	
	CAS No.	Analyte	Concentration	c	Q	M	
	7440-50-8	Copper_	1.3	Ū		P_	
	7439-89-6	Iron	19600	$\lfloor \rfloor \rfloor$		P	
	7439-92-1	Lead	1.5	ប		P_	
	7440-23-5	Sodium	3160000	$l_{\perp}l$		P_	
	7440-66-6	Zinc	28.2			P_	
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CODES:							•
P: ICP;	F : GFAA;	cv: cold	Vapor; AS: Aut	com	ated S	pectrop	notometric
			ation) column i				
			<pre>= Sample value eporting limit;</pre>				
Comments:	LIMIC, DUC I	ess chan I	eporting limit,	,	NK -	NOL Red	irea.
	SODTIM AT A	מונדת אפכ	ION				
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## NYTEST ENVIRONMENTAL INC.

# INORGANICS ANALYSIS DATA SHEET SAMPLE NO.

74 74 74 74	Log er): WATE : LOW0.	in No.: 27  R  O  Units (ug  Analyte  Copper Iron		QC Re Lab S Date	port N ample Receiv	ID:	EI10G2756007 05/15/96
Lab Code: NYTEST  Matrix (soil/wate Level (low/high) Percent Solids:  Conce	Log er): WATE : LOW0.  entration  AS No.  440-50-8 439-89-6 439-92-1 440-23-5	in No.: 27  R  O  Units (ug  Analyte  Copper Iron	/L or mg/kg dry	QC Re Lab S Date	port N ample Receiv	ID:	756007
Conce	er): WATE : LOW 0. entration AS No. 440-50-8 439-89-6 439-92-1 440-23-5	Units (ug Analyte Copper Iron	/L or mg/kg dry	Lab S Date y weig	ample Receiv	ID:	756007
evel (low/high) Percent Solids:  Conce  CA  74  74  74	: LOW0.  entration  AS No.  440-50-8 439-89-6 439-92-1 440-23-5	Units (ug	Concentration	Date y weig	Receiv	red: (	
74 74 74 74	AS No. 440-50-8 439-89-6 439-92-1 440-23-5	Analyte Copper Iron	Concentration	T		G/L_	
74 74 74 74	440-50-8 439-89-6 439-92-1 440-23-5	Copper		C Q	м		
74 74 74	439-89-6 439-92-1 440-23-5	Iron	1.3		1	1	
CODES:	: GFAA:	Lead_Sodium_Zinc	72500 1.5 96800 151		P P P P P P P P P P P P P P P P P P P	troph	notometr
not detected i	in this sa	ample; "B"	ation) column i = Sample value eporting limit;	e great	ter tha	an Ir	strumen

500351

#### NYTEST ENVIRONMENTAL INC.

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC	Contract:	9622307
Lab Code: NYTEST Login	No.: 27560_	QC Report No.: OU2
Initial Calibration Source:	SPEX	•
Continuing Calibration Source:	SPEX	

Concentration Units: ug/L

  Analyte	Initia True	al Calibra Found		True	Continui: Found		ibration Found	%R(1)	м
Copper	1000.0	1002.24	100.2	3000.0	2936.27	97.9	_2943.65	98.1	P
Iron	5000.0	5003.88		25000.0	24874.76	99.5	24929.71	99.7	P
Lead	1000.0				490.03		485.32		P
Sodium	11000.0	10938.54				96.9	27297.10	99.3	P_ P
Zinc		_1001.52			_2924.55			96.0	P
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NR : Analyte Not Required

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### NYTEST ENVIRONMENTAL INC.

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab	Name:	NYTEST_ENV_	INC		Contract:	9622307	
Lab	Code:	NYTEST	Login N	o.: 27560_		QC Report No.	: OU2
Init	tial Ca	alibration So	ource:	SPEX	-		
ant	innino	Calibration	Source	SPEY			

Concentration Units: ug/L

Analyte	Initia True	al Calibr Found	True	Continui Found	ng Cal: %R(1)		%R(1)	M
Copper Iron Lead Sodium Zinc			500.0 _27500.0	24860.69 $482.30$ $28368.23$	_99.4 _96.5 103.2	$\overline{2}4978.34$	_99.9 _95.4 _95.9	P P P P P P P P P P P P P P P P P P P
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NR : Analyte Not Required

500352

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC		Contract:	9622307		
Lab Code: NYTEST Login 1	No.: 27560_		QC Report	No.:	OU2
Initial Calibration Source:	SPEX	<del></del> .	•		
Continuing Calibration Source:	SPEX				

Concentration Units: ug/L

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	Initia	l Calibr		·	Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper				3000.0	_2929.82	_97.7	_2934.75	_97.8	P_
Iron				_25000.0	25001.88	100.0	24909.81	_99.6	P_
Lead				500.0	475.01	_95.0	472.05	94.4	P_
Sodium				27500.0	<del>27</del> 217.86	99.0	25957.51	94.4	P
Zinc				3000.0	_2819.02	_94.0	_2806.83	_93.6	P
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NR : Analyte Not Required

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC	Contract:	9622307
Lab Code: NYTEST Login 1	No.: 27560_	QC Report No.: OU2
Initial Calibration Source:	SPEX	
Continuing Calibration Source:	SPEX	

Concentration Units: ug/L

Analyte	Initia True	al Calibra Found		True	Continui: Found			%R(1)	
Copper									N N
Lead Sodium Zinc	_11000.0	11350.00	103.2	_27500.0	26464.43	_96.2	25191.59	_91.6	N P N
									-
									-
									-
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NR	:	Analy	/te	Not	Required	l
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# CRDL STANDARD FOR AA AND ICP

Lab Name: NYTEST_ENV_INC	**************************************	Contract: 9622307
Lab Code: NYTEST Login No.:	27560_	QC Report No.: OU2
AA CRDL Standard Source: SPEX		
ICP CRDL Standard Source: SPEX		

Concentration Units: ug/L

	CRDL S	tandard fo	or AA	CRDL Standard for ICP Initial Final									
Analyte	True	Found	&R	True	Found	&R	Found	%R					
Copper Iron				50.0	52.91	105.8	53.67	_107.					
Lead Sodium				6.0	7.05	117.5	6.11	_101.					
Zinc				40.0	40.01	100.0	38.77	96.					
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### ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST\_ENV\_INC\_\_\_\_ Contract: 9622307\_\_\_\_

Lab Code: NYTEST Login No.: 27560\_

QC Report No.: OU2

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

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Analyte	Initial Calib. Blank (ug/L)	С	Cont:	i.ni B: C	uing Calib lank (ug/L 2	rai ) C	tion 3	С	Prepa- ration Blank C	M
Copper Iron Lead Sodium Zinc	-2.0 10.8 1.5 566.0 -2.6	BUUUB	10.8 1.5	BUUUU	1.3 11.2 1.5 566.0 2.1	U B U U	1.3 10.8 1.5 566.0 2.1	ממממ	35.010 B P 1.500 U P 566.000 U P	_
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

# ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST_ENV_INC	Contract: 9622307
Lab Code: NYTEST Login No.: 27560_	QC Report No.: OU2
Preparation Blank Matrix (soil/water):	
Preparation Blank Concentration Units (ug/	L or mg/kg):

Ton	Analyte	Initial Calib. Blank (ug/L)	С		in B	uing Calib lank (ug/L) 2	ra ) C	tion 3	С	Prepa- ration Blank C	м
	Iron Lead Sodium			96.6 1.5 566.0	B U U	34.4 1.5 566.0	B U U	23.9 1.5 566.0	B U U		P P
			- - -		_ _ _ _		_ _ _ _		-		
							_ _ _				
			_ _ _ _		_ _ _		_ _ _ _		-		
			  -  -  -		_ _ _		_ _ _		-		

NR = Analyte Not Requested

### ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name:	NYTEST_E	NV_INC	Contract:	9622307			
Lab Code:	NYTEST	Login No.: 27560_		QC Report N	10.:	OU2_	
Preparati	on Blank M	Matrix (soil/water):					
Preparati	on Blank (	Concentration Units (ug/	L or mg/kg	<b>):</b>			

. ———	<del>,</del>		<del></del>	·			 			
Analyte	Initial Calib. Blank (ug/L)	С		in B C	uing Calib lank (ug/L 2	ra ) C	3	С	Prepa- ration Blank C	М
Copper Iron Lead		1 1 1		<u></u>		<u>-</u>				NR_ NR_ NR_
Sodium Zinc	566.0_	์ - -	566.0_	<u></u> -	566.0_	บ - -				P NR
		_ _ _		-  -		-  -				
		_ _ _				  -  -				
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NR = Analyte Not Requested

NEI FORM 4 - (9/93)

500358

### ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_E	NV_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27560	· -	QC Report No.:	OU2
TCP TD Nu	mber: 61		TCS Source	: EPA	

Concentration Units: ug/L

	Sol.		Initial Found Sol. Sol.			Final Found Sol. Sol.			
Analyte	Ą	AB	A	AB	%R	A	AB	₹R	
Copper									
Iron				_					
Lead									
Sodium	0	0	9			307	-78.6		
Zinc									
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# ICP INTERFERENCE CHECK SAMPLE

Lab	Name:	NYTEST_ENV_	INC	Contract:	9622307	
Lab	Code:	NYTEST	Login No.: 27560_		QC Report No.:	OU2
ICP	ID Numb	per: 61		ICS Source:	EPA	

# Concentration Units: ug/L

Analyte	Sol.	rue Sol. AB	In: Sol. A	itial Found Sol. AB	đ %R	Final Found Sol. Sol. A AB %R			
CopperIron	0	0					46.1		
								***************************************	

NEI FORM 5 - (9/93)

### ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_ENV	_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27560_	-	QC Report No.:	OU2
TCD TD Nu	mber: TRACE		TCS Source	• FDA	

Concentration Units: ug/L

	T	rue	In	itial Found	đ	]	Final Found	đ
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.	
Analyte	A	AB	A	AB	%R	A	AB	&R
Copper	0	500	0		106.0	3	530.6	
Iron	20000	200000	_199867		102.0	_201298		102.3
Lead	<u></u> 0	1000	28	974.1	97.4	34	941.2	_94.1
Sodium	-							
Zinc	71	1000	19	947.7	_94.8	-24	908.7	_90.9
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ab Name:	NYTEST_EN	v_inc		Contract:	9	622307		ZZZZZZ	zs	
Lab Code:	NYTEST	Login No.:	2	7560_		QC Repo	rt	No.:	ου	J2_
latrix (so	il/water)	: WATER_				Level (	lo	w/med)	: L	LOW
Solids f	or Sample	:: <u> </u> 0.0								
	Concentr	ation Units (ug	/L	or mg/kg dry	we	ight): UG/	ւ_			
Analyte	Control Limit %R	Spiked Sample Result (SSR)	С	Sample Result (SR)	С	Spike Added (SA	<b>4</b> )	&P		Q
Copper Iron Lead	75-125_ 75-125_ 75-125_	227.4700 3934.7600 484.7800		1.3000 3109.1700 1.5000		1000.0	00		6	-
Sodium	75-125_	564.2300_	  -  -	25.1100		500.0	00	107.	8	_   !
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Comments:										

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	DUP	LICATES		
Lab Name: NYTEST_ENV_	INC	Contract:	9622307	ZZZZZZD
Lab Code: NYTEST	Login No.: 27560	<u>.</u>	QC Rep	ort No. : OU2
<pre>Matrix (soil/water):</pre>	WATER		Level	(low/med): _LOW
<pre>% Solids for Sample:</pre>	0.0	*	Solids for	Duplicate:0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q M
Copper		1.3000		1.3000			P_
Iron		3109.1700		3100.4500	_	0.3	_ P_
Lead	·	1.5000	Ū	1.5000	ט		_ P_
Sodium		2408000.0000		2435425.0000		1.1_	P_
Zinc	20.0	25.1100		43.4800	_	53.6	_ P_
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NR : Analyte Not Requested

# LABORATORY CONTROL SAMPLE

Lab Name: NYTEST_EN	V_INC	Contract:	9622307	
Lab Code: NYTEST	Login No.: 27560_		QC Report No.: OU2	_
Solid LCS Source:				
Ameous ICS Source:	SDFY			

Analyte	Aque True	eous (ug/) Found	L) %R	True	Sol Found	id C	(mg/kg) Li	mits	%R
Copper		_1469.10							
Iron		10740.81				$I_{-}$			
Lead	_1000.0	998.04	_99.8_						
Sodium	10000.0	10380.20	103.8			_			
Zinc	1000.0	971.93	97.2			-			
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500364

SAMPLE NO.

# ICP SERIAL DILUTION

Lab Name: NYTEST_ENV	INC Contract:	9622307	ZZZZZZL
Lab Code: NYTEST	Login No.: 27560_	QC Rep	port No.: OU2
Matrix (soil/water):	WATER	Level	(low/med): LOW

Concentration Units: ug/L

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	 	1	Serial		*	i	l 
	Initial Sample	ı	Dilution	- 1	Differ-	1	ļ
Analyte	Result (I) C	:!	Result (S)	c!	ence	Q	M
		1		!	!!!	! -	]
Copper	1.30 U	7	6.50	Ū		!-	P
Iron	3109.17	1	3093.75		0.5	-	p-
Lead	1.50	-	7.50	ט		-	P-
		Ή.		101	3.5	1-	5-
Sodium	_2408000.00	- İ	2323425.55	1= İ		1-	<u> -</u>
Zinc	25.11	- i	27.15	B	8.1_	1-	P_
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Instrument Detection Limits (Quarterly)

Lab Name: NYTEST_ENV_INC	Contract:	9622307
Lab Code: NYTEST Login No.: 27560_		SDG No.: OU2
ICP ID Number: 61	Date:	04/16/96
Flame AA ID Number :		
Furnace AA ID Number :		

Analyte	Wave- length (nm)	Back- ground	CRDL (ug/L)	IDL (ug/L)	М
Copper			25		NR
Iron			100		NR
Lead			5		NR
Sodium	588.99	•	5000	566.0	P
Zinc			20		NR
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Comments:					

Instrument Detection Limits (Quarterly)

Lab Name: NYTEST_ENV_I	NC	Contract:	9622307	
Lab Code: NYTEST Log	in No.: 27560_		SDG No.:	OU2
ICP ID Number:	TRACE	Date:	04/16/96	
Flame AA ID Number :				
Furnace AA ID Number :	-		·	

	Analyte	Wave- length (nm)	Back- ground	CRDL (ug/L)	IDL (ug/L)	м
	Copper	324.75	1	• 25	1.3	P
	Iron	271.44		100	10.8	P
	Lead	220.35		5	1.5	P
	Sodium			5000		NR
	Zinc	206.20		20	2.1	P
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Comments:	

# INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

ah Name: NVTF	EST ENV INC		Contract: 9	622307	WE-3S
ab Code: NYTE				<del></del>	No Olia
ab Code: NITE	eer nog	111 NO.: 2/	J/3_	oc keport	No.OU2
atrix (soil/w evel (low/hig ercent Solids	(h) : LOW				e ID: 757901 eived: 05/16/96
		•			·
Co	ncentration	Units (ug	/L or mg/kg dr	y weight):	UG/L_
		T			
	CAS No.	Analyte	Concentration	C O	M
	7440-50-8	Copper	6.0	$\left  \frac{1}{B} \right $	<u>P</u>
	7439-89-6	Iron	157000		P_
	7439-92-1	Lead	1.5	<u></u> <del>U</del>	P_
	7440-23-5	Sodium	1910000		P_
	7440-66-6	Zinc	151		P
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ODES :		1	1	1 1	
	F : GFAA;	CV: Cold	Vapor; AS: Aut	comated Sp	ectrophotometri
					the analyte was
not detecte	d in this s	ample; "B"	= Sample value	e greater	than Instrument
Detection L	imit, but l	ess than r	eporting limit;	$;  \bar{"}NR" = N$	ot Required.
mments:					<del></del>
WE-35					
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ab Code: NYThatrix (soil/weight)	water): WATE	gin No.: 27 CR	579_	Lab Samp	t No.OU2 ole ID: 757902 eeived: 05/16/9
ercent Solids		0		Date Rec	erveu. 03/10/3
Co	oncentration	Units (ug	/L or mg/kg dr	y weight)	: UG/L_
	CAS No.	Analyte	Concentration	C Q	M
	7440-50-8	Copper	3.8	B	P_
	7439-89-6	Iron	46100		P
	7439-92-1	Lead	1.5	1 1	P
	7440-23-5	Sodium	40300		P
	7440-66-6	Zinc	122		P_
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DDES:					
not detecte Detection I mments:	in the "C" d in this s	(Concentrate)  ample; "B"	Vapor; AS: Autation) column in a sample value eporting limit;	indicates greater	the analyte w than Instrume
GEI-3G					

b Code: NYT	EST Log	in No.: 27	579_	QC	Repo	rt No	.OU2
	water): WATE gh) : LOW s :0.						D: 757903 d: 05/16/96
		ä					
c	oncentrati <b>o</b> n	Units (ug	/L or mg/kg dr	y w	eight	): UG	/L_
				Π	<del></del>	<u> </u>	
	CAS No.	Analyte	Concentration	c	Q	M	
	7440-50-8	Copper	2.8	B		-   P	
	7439-89-6	Iron	19900			P	
	7439-92-1	Lead	1.5			_ P_	
	7440-23-5	Sodium_	2920000			P_	
	7440-66-6	Zinc	18.7	B .		_ P_	
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DDES :		1		i <b></b> - I -	· · · · · · · · · · · · · · · · · · ·	_!	
	F : GFAA:	CV: Cold	Vapor; AS: Aut	coma	ated :	Spect	rophotometr
Note: A "U	" in the "C"	(Concentr	ation) column :	ind	icate	s the	analvte wa
not detect	ed in this s	ample; "B"	= Sample value	e g:	reate	r tha	n Instrumen
Detection :	Limit, but 1	ess than r	eporting limit	; "i	NR" =	Not	Required.
mments:			-				<del>-</del>
WE-3R							
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evel (low/hig ercent Solids Co	s: <u> </u>	0	/L or mg/kg dr	y t	weight)	: UG	/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	-	2.1	ᇹ			
	7439-89-6	CopperIron	20400			P_P_P_P	
	7439-83-0	Lead	1.5	<b>1</b>		P	
		Sodium	1300000			P	
	7440-66-6	Zinc	27.4	_		P	
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DDES :				_ 1		1	

### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

(ab Name: NVTE	ST ENV INC		Contract: 9	622307	WE-7S
Lab Code: NYTE					No.OU2
bab code. NIIE	sı Log	III NO.: 27	5/9_	QC Report	NO.002
Matrix (soil/w Level (low/hig Percent Solids	h) : LOW				e ID: 757905 ived: 05/16/96
		-			
0-		IImita (na	/T am mar/lear also		
Co	ncentration	units (ug	/L or mg/kg dry	y weight):	0G/ L_
	CAS No.	Analyte	Concentration	C Q	M
	7440-50-8	Copper	1.3	<del> </del>	P
	7439-89-6	Iron	38700		P_
	7439-92-1	Lead	1.5	נ כו כו כו	P_
	7440-23-5	Sodium	1160000		P_
	7440-66-6	Zinc	152	_ _	P_
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	F : GFAA;				ectrophotometric
note: A "U"	in the "t"	ug" :olama	acton) cotumn :	indicates t	the analyte was
			eporting limit;		
Comments:	imic, way it	LLG CIMIL I	cros carry , a amate	, – IV	or vedatten.
WE-7S					
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ab Name: NYT	EST_ENV_INC_		Contract: 9	622307	WE-6R
ab Code: NYT	EST Log	in No.: 27	579_	QC Report	No.OU2
atrix (soil/vevel (low/hicercent Solids	gh) : LCW			Lab Sample Date Rece	e ID: 757906 ived: 05/16/96
Co	oncentration	Units (ug	/L or mg/kg dr	y weight):	UG/L_
	CAS No.	Analyte	Concentration	C Q	1
,	7440-50-8 7439-89-6 7439-92-1	Copper Iron Lead	3.9 20000 1.5	I	5- 5- 5-
	7440-23-5 7440-66-6	Sodium Zinc	2120000 24.6		
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ODES :					
Note: A "U' not detecte	' in the "C" ed in this s	(Concentra ample; "B"	Vapor; AS: Autation) column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion column in attion co	indicates t greater t	the analyte was than Instrumen
WE-6R_					
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ab Name: NYTH	ST ENV INC		Contract: 9	622307	GEI-6G
			579_		t No.OU2
atrix (soil/w evel (low/hig ercent Solids	vater): WATE	R	· · ·	Lab Samp	le ID: 757907 eived: 05/16/96
Co	ncentration	Units (ug	/L or mg/kg dr	y weight)	: UG/L_
	CAS No.	Analyte	Concentration	c Q	м
	7440-50-8	Copper	6.1	$\left \frac{1}{B}\right $	P_
	7439-89-6	Iron	9550		P_
* <del>-</del>	1	Lead	17.2		P_
	E	Sodium	1010000		P_
	7440-66-6	Zinc	214	-	P_
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CODES :	F · CFAA·	CV. Cold	Vanor. As. Aut	tomated S	pectrophotometri
Note: A "U" not detecte	in the "C" d in this s	(Concentr ample; "B"	ation) column : = Sample value	indicates e greater	the analyte was than Instrument
	imit, but 1	ess than r	eporting limit	; "NR" =	Not Required.
omments:					•
GEI-6G				· · · · · · · · · · · · · · · · · · ·	,
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### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

500375

Lab Code: NYTEST Login No.: 27579_ QC Report No.OU2  Matrix (soil/water): WATER Lab Sample ID: 757908	GEI-6S
Matrix (soil/water): WATER Level (low/high) : LOW Percent Solids :0.0  Concentration Units (ug/L or mg/kg dry weight): UG/L_  CAS No.	
CAS No. Analyte Concentration C Q M    7440-50-8	Lab Sample ID: 757908 Date Received: 05/16/96
7440-50-8 7439-89-6 7439-92-1 7440-23-5   Copper	Units (ug/L or mg/kg dry weight): UG/L_
7439-89-6   Iron	Analyte Concentration C Q M
CODES:  P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotome Note: A "U" in the "C" (Concentration) column indicates the analyte not detected in this sample; "B" = Sample value greater than Instrum Detection Limit, but less than reporting limit; "NR" = Not Required. Comments:  GEI-6S	Tron 598 PP PP PP PP PP PP PP PP PP PP PP PP PP
NEI FORM 1 - (9/93) 500375	NTT TODY 1 (0 (02)

rix (soil/ vel (low/hi	EST Logwater): WATE gh) : LOW s :0.	R	579_	La	b Samp	ole I	.OU2 D: 757909 d: 05/16/96
С	oncentration	Units (ug	/L or mg/kg dr	y w	eight)	: UG	/L_
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	Copper	6.4	ㅠ		$-\left {P}\right $	
	7439-89-6	Iron	70700			- P-	
		Lead	1.5			- P	
•		Sodium	1790000			P_	
	7440-66-6	Zinc	36.7	- -		P_	
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Note: A "U not detect	" in the "C" ed in this s	(Concentr ample; "B"	Vapor; AS: Autation) column in a sample value eporting limit;	ind. e g:	icates reater	the tha	analyte wa n Instrumer
WE-5S							

# INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Code: NYT	EST Log	in No.: 27	579_	QC F	Report	No.OU	2
	water): WATE gh) : LOW s :0.					le ID:	757910 05/16/9
			• .				
Co	oncentration	Units (ug	/L or mg/kg dr	y wei	.ght):	UG/L_	
	1		<u> </u>	<del></del>			
	CAS No.	Analyte	Concentration	С	Q	М	
	7440-50-8	Copper	5.0	B -		P	
	7439-89-6	Iron	68200			P_	
	7439-92-1	Lead	1.5	บ		P_	
	7440-23-5	Sodium	1870000	_ _		P_P	
	7440-66-6	Zinc	141			P_	
				-			
				- -	[		
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		:		-			
DES :							
			Vapor; AS: Aut				
Note: A "U"	in the "C"	(Concentra	ation) column i	indic	ates	the and	alyte wa
not detecte	d in this s	ample; "B"	= Sample value	gre	ater	than I	nstrume
Detection L ments:	imit, but i	ess than re	eporting limit;	"NR	" = N	ot Requ	ured.
DUP							
DOF							

### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

Code: NYT	EST Logwater): WATE gh) : LOW s :0.	R	Contract: 9	Lal	o Samp	ole ID:	0U2 : 757911 : 05/16/96
Co	oncentration	Units (ug	/L or mg/kg dr	y we	eight)	: UG/I	<u>-</u>
	CAS No.	Analyte	Concentration	С	Q	M	
	7440-50-8	Copper	5.3	ㅠ -		- <del> </del> <del> </del>	
	5	Iron	18900			P	
	1	Lead	1.5			P_	
	1	Sodium	2450000			P_	
	7440-66-6	Zinc	34.8	_ -		P_	
						.	
				_   _		.	
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			l	_   _		.	
Note: A "U' not detecte Detection I ments:	' in the "C" ed in this s	(Concentrample; "B"	Vapor; AS: Autation) column in a sample value eporting limit;	indi e gr	cates eater	the a	nalyte wa Instrumen
u L' = 14 D							
VE-5R	······································						

# INORGANICS ANALYSIS DATA SHEET

ab Name: NYTEST\_ENV\_INC\_\_\_\_ Contract: 9622307

SAMPLE NO.

GEI-5G

Cas No.	triv /cail/	water) · Wame	סי		T.a.h	Sample	TD: 757912
Cas No.	vel (low/high	gh) : LOW					
CAS No.	roche borra						
CAS No.							
7440-50-8 7439-89-6 7439-92-1 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 7	Co	oncentration	Units (ug	/L or mg/kg dr	y wei	ght): U	G/L_
7440-50-8 7439-89-6 7439-92-1 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 7440-66-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 740-06-6 7		1	1	1	T		<u> </u>
7439-89-6   Iron		CAS No.	Analyte	Concentration	c ·	Q M	
7439-89-6		7440-50-8	Copper	4.7	B		
P						P_	
7440-23-5   Sodium		7439-92-1	***************************************	25.9		P_	
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte winot detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  ments:		7440-23-5	Sodium	401000		P	
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte with the most detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  ments:		7440-66-6				P_	
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte want detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte work that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value grea							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte work that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample; "B" = Sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value greater than Instrument that the sample value grea							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte would be detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.  ments:					1 1		
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte wo not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:				·	-		
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte want detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:					- -	[ [	
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte want detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:					-		
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte want detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte wo not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotometry Note: A "U" in the "C" (Concentration) column indicates the analyte was not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:	. *				1 1		
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte would detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte would be detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte would detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
DES: P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte would detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.ments:							
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.ments:							
P: ICP; F: GFAA; CV: Cold Vapor; AS: Automated Spectrophotomet: Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required.ments:						<del></del>	
Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrument Detection Limit, but less than reporting limit; "NR" = Not Required. ments:	DES :		•		,		,
Note: A "U" in the "C" (Concentration) column indicates the analyte we not detected in this sample; "B" = Sample value greater than Instrume: Detection Limit, but less than reporting limit; "NR" = Not Required. ments:	P: ICP;	F : GFAA;	CV: Cold '	Vapor; AS: Aut	comate	ed Spect	rophotomet
Detection Limit, but less than reporting limit; "NR" = Not Required. ments:							
Detection Limit, but less than reporting limit; "NR" = Not Required. ments:	not detecte	ed in this s	ample; "B"	= Sample value	grea	ater tha	an Instrume
·	Detection I	Limit, but 1	ess than re	eporting limit:	'NR'	' = Not	Required.
	ments: GET-5G						_
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### INORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

ab Name:	NYTEST_ENV_INC_		Contract: 9	622307	WE-114D
ab Code:	NYTEST Log	in No.: 27	579_	QC Report	No.OU2
evel (low	il/water): WATE /high) : LOW lids :0.	0	/L or mg/kg dr	Date Rece	e ID: 757915 ived: 05/16/96 UG/L_
	CAS No.	Analyte	Concentration	c Q	M
Note: A not det	"U" in the "C" ected in this so on Limit, but lo	CV: Cold (Concentrample; "B"	ation) column : = Sample value	tomated Speindicates a greater	than Instrument

ab Name: NYTF	ST ENV INC		Contract: 9	622307	FB-03
Lab Code: NYTE		in No.: 27		QC Report	No. OU2
dab code. Niin	,51 109	, III NO 27	579_	QC Report	NO.002
Matrix (soil/w Level (low/hig Percent Solids	h) : LOW				e ID: 757916 ived: 05/16/96
Co	ncentration	Units (ug	/L or mg/kg dr	y weight):	UG/L_
	1	1	T .		<u> </u>
	CAS No.	Analyte	Concentration	C Q I	<b>4</b>
	7440-50-8	Copper	4.1		P_
	7439-89-6	Iron	80.2	B I	₽_
	7439-92-1	Lead	2.2	B I	
	7440-23-5	Sodium	1800	B    F	5-
	7440-66-6	Zinc	37.1	-	P_
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CODEC .			<u> </u>	_  _	_1
CODES:	r · craa·	cv. cold v	Janore Ase Aut	tomated Spe	ctrophotometri
					the analyte was
					han Instrument
Detection L	imit, but 1	ess than re	eporting limit;	; "NR" = Nc	t Required.
omments:					-
FB-03		····	· · · · · · · · · · · · · · · · · · ·		·
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		NEI FORM	41 - (9/93)		500381

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC		Contract:	9622307	
Lab Code: NYTEST Login	No.: 27579_		QC Report	No.: OU2
Initial Calibration Source:	SPEX			
Continuing Calibration Source	SPEX			· · · · · · · · · · · · · · · · · · ·

Concentration Units: ug/L

								······	
Analyte	Initia True	al Calibra Found		True	Continui: Found	ng Cal: %R(1)		%R(1)	м
Copper	1000.0	973.76	97.4	3000.0	2932.05	97.7	2901.09	96.7	$\left  {P} \right $
Iron	5000.0	_5126.85	102.5	<u></u>	$\frac{1}{2}$ 4541.32	98.2	$\overline{2}4706.69$	98.8	P_ P_ P_ P_
Lead	1000.0			500.0		_98.8	499.22		P_
Sodium Zinc	_11000.0 1000.0				27019.10 _2918.17				P-
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IR : Analyte Not Required

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Tab Name: NYTEST_ENV_INC		Contract:	9622307	
Lab Code: NYTEST Login N	o.: 27579_		QC Report No	o.: OU2
nitial Calibration Source:	SPEX			
Continuing Calibration Source:	SPEX	<u> </u>		

Concentration Units: ug/L

			 				· · · · · · · · · · · · · · · · · · ·	, ,
Analyte	Initi True	al Calibra	True	Continui: Found			%R(1)	l M
Copper Iron Lead Sodium			_25000.0 500.0 _25000.0	24738.64 509.59 26052.36	_99.0 101.9 104.2	3024.98 25310.59 516.49 27230.20	101.2 103.3 108.9	P P P P
Zinc				2913.44	97.1	_2981.56	_99.4	P_
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R : Analyte Not Required

NEI FORM 2 - (9/93)

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab	Name:	NYTEST_ENV_IN	C		Contract:	962230	7			
Lab	Code:	NYTEST	Login No	o.: 27579_		QC	Report	No.:	OU2	
Init	cial Ca	alibration Sou	rce:	SPEX					,	
Cont	inuing	g Calibration	Source:	SPEX						

Concentration Units: ug/L

Analyte	Initia True	al Calibr Found	True	Continui: Found	ng Cal: %R(1)		%R(1)	М
Copper Iron Lead Sodium Zinc			25000.0 500.0 25000.0	$\overline{27}162.51$	_99.2 _98.4 _108.7	_2923.79 25324.55 _499.24 26701.36 _2935.02	101.3 _99.8 106.8	P P P P P

NR : Analyte Not Required

# INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab	Name:	NYTEST_ENV	_INC		_	Contract:	9622307		
Lab	Code:	NYTEST	Login	No.:	27579_		QC Report	No.:	OU2
Init	ial Ca	alibration	Source:	SPE	EX	<del></del>			

Concentration Units: ug/L

Analyte	Initia True	al Calibr Found	True	Continui Found	ng Cal: %R(1)		%R(1)	M
Copper Iron Lead Sodium Zinc			500.0 500.0 25000.0	500.62 26093.88	_99.3 100.1 104.4	2988.04 25931.30 526.81 26382.58 3088.52	103.7 105.4 105.5	P P P P

NR : Analyte Not Required

Continuing Calibration Source: SPEX\_\_

#### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Tab Name: NYTEST_ENV_INC		Contract:	9622307	
Lab Code: NYTEST Login N	o.: 27579_		QC Report No	.: OU2
Initial Calibration Source:	SPEX			
Continuing Calibration Source:	SPEX	<u> </u>		

Concentration Units: ug/L

	Initial	. Calibr			Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	1
Copper			<u> </u>	3000.0	_2900.45	_96.7	_2972.72	_99.1	P P P
Iron							$\overline{2}5734.16$		P
Lead				500.0			524.49		P
Sodium					25984.10			104.4	P
Zinc				3000.0	_3000.34	100.0	_3071.46	102.4	P
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R : Analyte Not Required

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

T_ab	Name:	NYTEST_EN	V_INC		Contract:	9622307	7		
Lab	Code:	NYTEST	Login 1	To.: 27579_		QC	Report	No.:	OU2
Init	tial Ca	alibration	Source:	SPEX					
Cont	tinuing	g Calibrat	ion Source:	SPEX					•

Concentration Units: ug/L

Analyte	Initial True	Calibr Found	True	Continui: Found	ng Cali %R(1)	ibration Found	%R(1)	
Copper Iron Lead Sodium Zinc			25000.0 500.0 _25000.0	_2902.48 24930.97 _513.49 25310.48 _2974.82	_99.7 102.7 101.2			PPPP

NR : Analyte Not Required

NEI FORM 2 - (9/93)

500387

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC					Contract:	9622307			
iab C	ode:	NYTEST	Login No	27579_		QC Report	No.:	OU2_	
Initia	al Ca	libration Sour	ce:	SPEX	_				
Conti	nuing	Calibration S	ource:	SPEX	_				٠

Concentration Units: ug/L

	1								<del></del>
	Initial Calibration			Continuing Calibration					
Analyte	True	Found		True	Found			%R(1)	M
			021(2)			0.0(-)		(_/	
Copper	1000.0	1008.86	100.9	3000.0	3117.56	103.9	3088.31	102.9	P
Iron		5321.67			25528.90				P
Lead	1000.0	1046.13			507.02				P_ P_
Sodium		10663.94		_25000.0					P_ P_
Zinc	1000.0	_1073.27	107.3	3000.0	_3059.62	102.0	_3045.54	101.5	P_
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NR : Analyte Not Required

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

∿ab	Name:	NYTEST_ENV_INC	2		Contract:	9622307		
Ŀab	Code:	NYTEST	Login No	o.: 27579_		QC Report	No.:	OU2
[nit	tial Ca	alibration Sour	rce:	SPEX		,		
Cont	tinuino	r Calibration S	Source:	SPEX	•			

Concentration Units: ug/L

	Initia	l Calibr	ation		Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper			T	3000.0	_3014.15	100.5	_3113.58		P
Iron						_98.9	25562.37		P P
Lead				500.0					P
Sodium							25071.34		P.
Zinc				3000.0	_2980.19	_99.3	_3095.03	103.2	P
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NR : Analyte Not Required

## INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: NYTEST_ENV_INC	Contract:	9622307
Lab Code: NYTEST Login	No.: 27579_	QC Report No.: OU2
Initial Calibration Source:	SPEX	
Continuing Calibration Source:	SPEX	•

Concentration Units: ug/L

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	Y	l Calibr			Continui				
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Copper					_3085.94				P P P P
Iron				_25000.0	25386.94	101.5			P_
Lead					518.11			.	P_
Sodium					25287.65			.	P_
Zinc				3000.0	_3064.82	102.2		l	P_
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IR : Analyte Not Required

## CRDL STANDARD FOR AA AND ICP

Tab Name	: NYTEST_ENV_INC	Contract: 9622307
Lab Code	: NYTEST Login No.: 27579_	QC Report No.: OU2
A CRDL	Standard Source: SPEX	

ICP CRDL Standard Source: SPEX\_\_\_\_

	CRDL St	andard for	r AA	CRDL Standard for ICP Initial Final								
Analyte	True	Found	%R	True	Found	%R	Found	%R				
Copper				50.0	53.57	107.1	56.71	_113				
Lead				6.0	8.03	133.8	7.96	_132				
inc				40.0	43.55	108.9	48.70	_121				
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## CRDL STANDARD FOR AA AND ICP

Tab Name: NYTEST_ENV_INC_		Contract:	9622307	
Lab Code: NYTEST Log:	in No.: 27579_		QC Report No.:	OU2
A CRDL Standard Source:	SPEX		•	
ICP CRDL Standard Source:	SPEX	• • . •		

	•	·	*****						
	CRDL St	andard fo	r AA		CRDL Sta	ndard	for ICP Final		
Analyte	True	Found	%R	True	Found	%R	_	%R	
Copper			· · · · · · · · · · · · · · · · · · ·	50.0			57.75	_1/15.	
Lead Sodium_				6.0			7.06	_117.	
Zinc				40.0			47.15	_117.	
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#### CRDL STANDARD FOR AA AND ICP

⊺.ab	Name:	NYTEST_	ENV_INC	<del></del>	Contract:	9622307	
Lab	Code:	NYTEST	Login No.:	27579_		QC Report No.:	OU2
A	CRDL S	tandard	Source: SPEX	WARNING TO THE REAL PROPERTY OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON O			

Concentration Units: ug/L

ICP CRDL Standard Source: SPEX\_\_\_\_\_

CRDL St	andard for	r AA			ndard f		
True	Found	%R	True	Found	%R	Found	%R
<del></del>			50.0	54 17	108.3	52 61	105
				·			
			6.0	3.63	_60.5	7.83	_130.
-			40.0	43.57	108.9	43.96	109.
				·			
							-
			CRDL Standard for AA  True Found %R		True Found %R True Found	True Found %R True Found %R	True Found %R True Found %R Found

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name: NYTEST\_ENV\_INC\_\_\_\_ Contract: 9622307\_\_\_

\_ab Code: NYTEST Login No.: 27579\_

QC Report No.: OU2\_

reparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

Analyte	Initial Calib. Blank (ug/L)	С	Cont.		uing Calib lank (ug/L) 2		cion 3	С	Prepa- ration Blank C M
CopperIronLeadSodiumZinc	1.3 23.6 1.5 511.0 2.1	ו מטטשט	1.3 14.0 2.4 511.0 2.1_	U B B U U	2.2 64.9 2.5 886.7 10.6_	B B B B B -	1.3 41.0 2.8 511.0 3.2_	U B B U B	1.300 U P 38.120 B P 1.880 B P 511.000 U P 9.920 B P
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NR = Analyte Not Requested

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_	ENV_INC	Contract:	9622307				
Lab	Code:	NYTEST	Login No.: 27579_		QC Report No.	: OU2			
Pre	paratio	on Blank	Matrix (soil/water):						
Pre	paratio	on Blank	Concentration Units (ug/	L or mg/kg	):				

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Analyte	Initial Calib. Blank (ug/L)		inuing Calibr Blank (ug/L) C 2		Prepa- ration Blank C
CopperIronLeadSodiumZinc		1.5 46.3 1.9 511.0 2.7_	B66.0_ B1.5_ U511.0_	U 1.3 U B 33.2 B U 1.5 U U 511.0 U U 2.1 U	

NR = Analyte Not Requested

500395

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_E	ENV_INC	Contract:	9622307		
Lab	Code:	NYTEST	Login No.: 27579_		QC Report	No.:	OU2
Prep	aratio	n Blank	Matrix (soil/water):	<del></del>			
Prep	aratio	n Blank	Concentration Units (ug/	L or mg/kg	):		. ,

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Analyte	Initial Calib. Blank (ug/L)	С	Cont:	i ni Bi C	uing Calib lank (ug/L 2	rai C	tion 3	С	Prepa- ration Blank C	м
CopperIron LeadSodiumZinc			1.9 44.0 1.5 511.0 2.1	B U U U	4.6 46.3 2.9 511.0 5.1	B B B U B	2.6 32.7 2.4 511.0 2.7	B B B U B		PPP
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NR = Analyte Not Requested

500396

## ANALYTICAL AND METHOD BLANK SUMMARY

Tab Name: NYTEST	_ENV_INC	Contract:	9622307	
Lab Code: NYTEST	Login No.: 27579_		QC Report No	.: OU2
reparation Blank	k Matrix (soil/water):	· .		
Preparation Blank	k Concentration Units (ug/	L or mg/kg	):	

Analyte	Initial Calib. Blank (ug/L) C		inu Bl C	ing Calib ank (ug/L 2	ra ) C	tion 3	С	Prepa- ration Blank C	M
CopperIron LeadSodiumZinc		1.3 28.8 2.7 511.0 2.1	U B B U U	1.3 37.9 1.5 511.0 2.1	U B U U U		  -  -  -		P P P P P
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NR = Analyte Not Requested

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab Name:	NYTEST_	ENV_INC Contrac	ct: 96	522307		
Lab Code:	NYTEST	Login No.: 27579_		QC Report	No.:	OU2
Preparati	on Blank	Matrix (soil/water):				
Preparati	on Blank	Concentration Units (ug/L or mg/	/kg):		-	

Analyte	Initial Calib. Blank (ug/L)	С	Cont:		uing Calib lank (ug/L 2			С	Prepa- ration Blank	С	м
CopperIron Lead Sodium Zinc	2.0 10.8 1.9 511.0 3.3	B U B U B	4.1_ 65.4_ -1.7_ 511.0_ 4.4_	B B B U B	1.3 10.8 -2.1 511.0 2.1	U B U	1.3 14.7 1.5 511.0 2.1	U B U U U		-  -  -  -  -	P P P P
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NR = Analyte Not Requested

## ANALYTICAL AND METHOD BLANK SUMMARY

Lab	Name:	NYTEST_E	ENV_INC	Contract:	9622307		
Lab	Code:	NYTEST	Login No.: 27579_		QC Report	No.:	OU2
Prep	paratio	n Blank	<pre>Matrix (soil/water):</pre>				
Prep	paratio	n Blank	Concentration Units (ug/	L or mg/kg	):		

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Analyte	Initial Calib. Blank (ug/L)		inuing Calib Blank (ug/L) C 2	ration ) C 3 C	Prepa- ration Blank C	M
Copper Iron Lead Sodium Zinc		3.1 36.3 2.5 511.0 5.9_	B1.5_ U511.0	B		P P P P

NR = Analyte Not Requested

NEI FORM 4 - (9/93)

500399

## ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_ENV_	_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27579_		QC Report No.:	OU2
ICP ID Nu	mber: TRACE		ICS Source	: EPA	

		rue		itial Found	i i		Final Found	1
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.	
Analyte	A	AB	A	AB	%R	A	AB	%R
Copper	0	500	10		101.2	12	523.8	104.8
Iron	200000	200000	186749		_92.2	_197282	_192220.8	_96.1
Lead	0	1000	28	967.8	_96.8	26	950.4	_95.0
Sodium	0	0	181	-13.2		-176	388.7	
Zinc	71	1000	-14	913.5	_91.4	13	956.9	_95.7
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## ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_ENV	INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27579_		QC Report No.:	OU2
ICP ID Nur	mber: TRACE_		ICS Source	: EPA	

Analyte	Sol.	rue Sol. AB	In Sol. A	itial Foun Sol. AB	d %R	Sol.	Final Found Sol. AB	i %R
Copper Iron Lead	0 200000 0	500 _200000 1000				13 _205327 30	527.8 _198725.2 1009.2	105.6
Sodium Zinc	0 71 	0 1000				267 13	160.3 984.3	_98.4
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## ICP INTERFERENCE CHECK SAMPLE

Lab Name:	NYTEST_ENV	_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27579_		QC Report No.:	OU2
ICP ID Num	mber: TRACE		ICS Source:	EPA	

		rue		itial Found	đ		Final Found	đ
	Sol.	Sol.	Sol.	Sol.		Sol.	Sol.	
Analyte	A	AB	A	AB	&R	A	AB	%R
Copper	0	500	5	494.3	98.9	4	482.4	96.5
Iron	20000	200000	180471	_173343.8	_86.7	175782	_173729.6	
Lead	0	1000	36	849.0	_84.9	35	843.7	_84.4
Sodium	0	o		66.6		32	306.3	
Zinc	71	1000	-13	840.1	_84.0	-17	830.6	_83.1
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	MATRIX SP	IKE RECOVERY DATA :	SHEET	
Lab Name: NYT	EST_ENV_INC	_ Contract: 9	622307	GEI-5GS
Lab Code: NYT	EST Login No.:	27579_	QC Repor	t No. : OU2
Matrix (soil/	water): WATER_		Level (1	ow/med): LOW
% Solids for	Sample:0.0			
Co	ncentration Units (ug,	/L or mg/kg dry we:	ight): UG/L	<u>.</u>
	ntrol imit   Spiked Sample	Sample	Spike	

i	1			1			1	ı	l	1
Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	М	
0	75 105	222 0500	т—	4.6800	<del></del>	250.00		-	P	
Copper	75-125_	232.0500_ 33454.3000	-	35586.6300	B	1000.00		-	P-	
Lead	75-125	403.8800	-	25.8800	-	500.00	75.6	-	P-	
Sodium	1,2 123_	403.8666_	-	25.0000	_			-	NR	l
Zinc	75-125_	583.8700_	_	65.6700	_	500.00	103.6	_	P_	ĺ
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nments: GEI-5GMSD				

NR : Analyte Not Required

NEI FORM 6 - (9/93)

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SAMPLE	NO.	
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Lab Name: NYTEST_ENV_	INC	Contract:	9622307	GEI-5GD
Lab Code: NYTEST	Login No.: 27579	- <del></del>	QC Rej	port No. : OU2
Matrix (soil/water):	WATER		Level	(low/med): _LOW
<pre>% Solids for Sample:</pre>	0.0	ફ	Solids for	Duplicate:0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

, <del></del>	,	<u> </u>	<del></del>	<del></del>		<del>,</del>		
Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	M
Copper Iron Lead	5.0_	4.6800 35586.6300 25.8800	B -	3.9500 36704.9500 24.4500	B -	16.9 3.1 5.7	-	
SodiumZinc	20.0_	400900.0000	_ _ _	399060.0000 62.2700	-  -  -	0.5 5.3_	-  -  -	P_ P_
							-  -  -	
			<u>-</u>		- - -		-  -  -	
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			_				-  -  -	
					-		-	

NR : Analyte Not Requested

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## LABORATORY CONTROL SAMPLE

Lab Name:	NYTEST_ENV	V_INC	Contract:	9622307	
Lab Code:	NYTEST	Login No.: 27579_		QC Report No.:	OU2
Solid LCS	Source:				
Aqueous L	CS Source:	SPEX			

	Aque	eous (ug/l	<b>ւ</b> )	Solid (mg/kg)					
Analyte	True	Found	%R	True	Found	С	Lim	its	%R
Copper	1500.0	1407.60	93.8			Τ			
Iron	11000.0	10204.00	92.8			-			
Lead	1000.0	_1009.60 10794.00	101.0		·	-			
Sodium	10000.0	10794.00	107.9			-			
Zinc	1000.0	992.50	99.2			-			
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500405

#### ICP SERIAL DILUTION

SAMPLE	NO.	

					GEI-5GL
ab	Name:	NYTEST_ENV_INC	Contract:	9622307	

Lab Code: NYTEST Login No.: 27579\_

QC Report No.: OU2\_\_\_

.Matrix (soil/water): WATER

Level (low/med): LOW\_

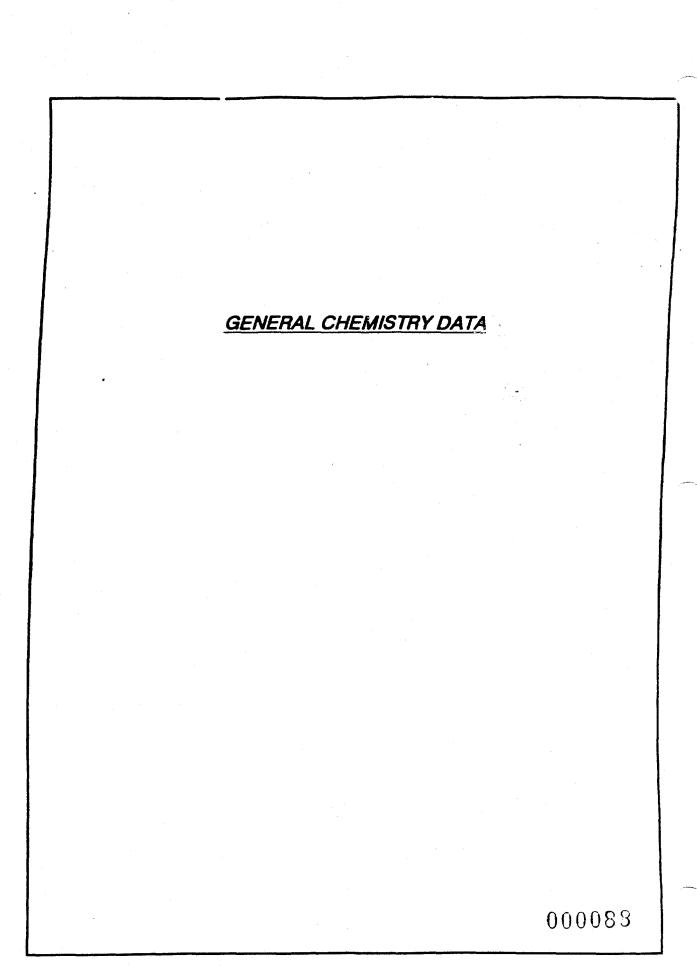
	Initial Sample		Serial Dilution		% Differ-		
Analyte	Result (I)	C	Result (S)	C	ence	Q	M
Copper Iron	35586.63	B	19.40 36448.95	В	314.5 2.4	<u> </u>	P_ P_
Lead	25.88	_	36.10	_	39.5	_	P_
Sodium	400900.00	_	430259.95	_	7.3	_	P_
Zinc	65.67_		94.70	В	44.2_	-	P_
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## Instrument Detection Limits (Quarterly)

Lab	Name: NYTEST_ENV_	INC	Contract:	9622307	
Lab	Code: NYTEST Loc	gin No.: 27579_		SDG No.:	OU2
ICP	ID Number:	TRACE	Date:	04/16/96	
Flan	ne AA ID Number :				
Furr	ace AA ID Number	_			. •

1	i -	T	1	1	
Analyte	Wave- length (nm)	Back- ground	CRDL (ug/L)	IDL (ug/L)	M
Copper	324.75		25	1.3	P
Iron	271.44		100	10.8	P
Lead	220.35		5	1.5	P
Sodium	330.23		5000	511.0	P
Zinc	206.20		20	2.1	P
			l		

Comments:			
			·
**************************************	<u> </u>	**************************************	



# **REPORT OF ANALYSIS**

Log In No.: 27560

We find as follows:

CLIENT ID	LAB ID		Biochem Oxygen Demand mg/L	Chloride	Chemical Oxygen Demand mg/L	Color Pt – Co	Surfactants mg/L	Ammonia Nitrogen mg/L
RR-01 RR-02 RR-03 RR-04 WE-10S WE-10R GEI10G	2756001 2756002 2756003 2756004 2756005 2756006 2756007		4.7 3.0 U 3.1 3.0 U 3.0 U 3.0 U 127	35.6 30.2 31.3 30.5 4200 4230 136	36.8 43.5 3.0 U 5.1 368 380 141	300 200 200 200 200 200 300	0.18 0.11 0.15 0.25 0.88 0.65 0.57	0.05 U 0.05 U 0.05 U 0.05 U 3.18 1.25 75.4
Method	Blank		3.0 U	1.0 IJ	3.0 U	10 U	0.05 U	0.05 U
CLIENT ID	LAB ID	-	Nitrate mg/L	Phenol mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L	
RR-01 RR-02 RR-03 RR-04 WE-10S WE-10R GEI10G	2756001 2756002 2756003 2756004 2756005 2756006 2756007		1.13 1.15 1.15 0.07 0.04	0.0035 U 0.0035 U 0.0035 U 0.0035 U 0.0035 U 0.0035 U 0.0035 U	32.8 19.9 23.6 20.1 435 405 888	175 161 146 150 7140 33 398	1.0 U 1.0 U 1.0 U 1.0 U 20.9 20.5 34.1	
Method B	lank		0.04 U	0.0035 U	3.0 U	10 U	1.0 U	

<sup>\*\*</sup>Please Note: The Fecal Coliform, Fecal Strep and Total Coliform tests could not be performed, because no sample was received for these tests.

# REPORT OF ANALYSIS

Log In No.: 27579

We find as follows:

CLIENT	LAB ID	Biochemical Oxygen Demand mg/L	Chloride mg/L	Chemical Oxygen Demand mg/L	Color	Fecal Coliforms colonies/100 mL	Fecal Strep colonies/100 mL	Total Coliforms colonies/100 mL
WE-3S	2757901	60	95.4	2520	2500	1.0 U	1.0 U	16800
GEI-3G	2757902	3.0 U	16.4	108	1500	1.0 U	1.0 U	1.0 U
WE-3R	2757903	3.0 U	3700	270	1500	1.0 U	1.0 U	1.0 U
WE-7R	2757904	3.0 U	4130	127	200	1.0 U	1.0 U	1.0 U
WE-7S	2757905	3.0 U	1280	597	1500	3200	1.0 U	*
WE-6R	2757906	3.0 U	3380	249	300	5000	1.0 U	•
GEI-6G	2757907	25.3	910	1100	1500	10000	1.0 U	•
GEI-6S	2757908	22.5	59.0	112	300	15000	1.0 U	*
WE-5S	2757909	20.7	2100	433	1500	8000	1.0 U	•
DUP	2757910	18.7	2140	488	1500	1.0 U	1.0 U	1.0 U
WE-5R	2757911	11.0	3930	193	1000	1.0 U	1.0 U	1.0 U
GEI-5G	2757912	43.3	2940	634	1500	1.0 U	1.0 U	1.0 <b>U</b>
WE-114D	2757915	4.8	68.5	26.3	300	1.0 U	1.0 U	300
FB-03	2757916	3.0 U	1.0 U	3.0 U	40	1.0 Ù	1.0 U	1.0 U
Method	Blank	3.0 U	1.0 U	3.0 U	10 U	1.0 U	1.0 U	1.0 U

CLIENT ID	LAB ID	Surfactants mg/L	Ammonia Nitrogen mg/L		Phenol mg/L	Sulfate mg/L	Total Dissolved Solids mg/L	Total Organic Carbon mg/L
WE-3S	2757901	0.83	21.3	0.04 U	0.191	181	8870	818
GEI-3G	2757902	0.12	28.5	0.08		273	520	11.6
WE-3R	2757903	0.48	0.696	0.09	0.0035 U	303	5590	15.6
WE-7R	2757904	0.22	0.316	0.05	0.0035 U	137	6020	1.0 U
WE-7S	2757905	0.43	36.7	0.12	0.0035 U	710	3470	100
WE-6R	2757906	0.38	10.5	0.04 U	0.0035 U	230	8640	10.4
GEI-6G	2757907	0.35	538	1.32		63.7	2930	126
GEI-6S	2757908	0.05 U	3.14	6.65	0.0035 U	230	923	9.12
WE-5S	2757909	0.51	9.42	0.04 U		171	5880	128
DUP	2757910	0.49	7.69	0.04	0.0035 U	171	6120	126
WE-5R	2757911	0.05 U	0.671	0.08		356	10300	6.94
GEI-5G	2757912	0.54	218	0.25 U	0.0035 U	81.0	1780	113
WE-114D	2757915	0.05 U	0.05 U	0.09		293	563	1.0 U
FB-03	2757916	0.05 U	0.05 U	0.04	0.0035 U	3.0 U	47	1.0 U
Method	Blank	0.05 U	0.05 U	0.04 U	0.0035 U	3.0 U	10 U	1.0 U

<sup>\* -</sup> Several samples were found to contain non-coliform bacteria at a concentration that interfered with the Total Coliform analysis. However the fecal coliform media, being more specific in what it allows to grow, did not have the same interference. Therefore, Fecal Coliform results for these samples are being submitted.

CLIENT : Emcon

Log In Number: 27560

PARAMETER	Sample Result		% RPD	Sample Result for spike	Spike Added	Spike + Sample Result	% Spike Recovered	Sample for OC from same sample? (dup/spike)
Biochemical Oxygen Demand, mg/L	3 U	3 U	NC	3 U	198	194	<b>98.</b> 0	NO/NO
Chloride, mg/L	3230	3220	0.3	3230	400	3620	97.5	NO/NO
Chemical Oxygen Demand, mg/L	355.4	1 359.	y 1.1	355.4	250.0	622.1	106. 7	NO/NO
Color, Pt-Co	1.50	150	0.0					NO
Surfactants, mg/L	0.88	0.89	1.1	0.88	0.60	1.54	110.0	NO/NO
Ammonia, Nitrogen, mg/L	0.05 U	0.05 U	NC	0.05 U	5.0	4.92	98.4	YES/YES
Nitrate, Nitrogen, mg/L	1.2/	1.18	2.5	1.21	0.50	1.67	92.0	YES/YES
Phenols, mg/L	0.003 U	0.003 U	NC	<b>0.003</b> U	0.100	0.084	84.0	NO/NO
Sulfate, mg/L	159.2	163.8	2.8	159.2	400	527	92.0	YES/YES
Total Dissolved Solid, mg/L	146	156	6.6	146	20	166	100.0	YES/YES
Total Organic Carbon, mg/L	20.47	20.88	2.0	20.47	100.0	115.3	94.8	YES/NO

NC: Non-calculable

NA : Non-Available

E : Above method 1 mit

U: Below method reporting limit

CLIENT : Emcon

Log In Number: 27577

PARAMETER	Sample Result	,	% RPD	Sample Result for spike	Spike Added	Spike + Sample Result	Z Spike Recovery	Sample for QC from same sample? (dup/spike)
Biochemical Oxygen Demand, mg/L	43.3	30.7	34.1	43.3	198	227.3	92.1	YES/YES
Chloride, mg/L	2140	2910	1.0	2940	400	3370	107.5	YES/YES
Chemical Oxygen Demand, mg/L	634	623	1.8	634	250	850	<b>8</b> 5. ^	YES/YES
Color, Pt-Co	1500	1500	3.0		si:	·		NO
Surfactants, mg/L	0.54	0.55	1.8	0.54	0.60	1.14	100.7	YES/YES
Ammonia, Nitrogen, mg/L	217.9	2/7.3	0.3	217.9	100.0	306.2	89.7	YES/YES
Nitrate, Nitrogen, mg/L	0.04 U	0.04 U	NC	0.04 U	2.5	2.25	90.0	YES/YES
Phenols, mg/L	0.003 U	0.003 U	ж	0.003 U	0.100	0.090	20.0	NO/NO
Sulfate, mg/L	171.3	171.3	0.0	171.3	200	356.2	92.5	YES/YES
Total Dissolved Solid, mg/L	1778	1724	3.1	1778	100	1854	75.0	YES/YES
Total Organic Carbon, mg/L	113.3	113.0	0.3	56.2	100.0	156.2	100.^	YES/YES

NC: Non-calculable

NA : Non-Available

E : Above method limit

U : Below method reporting limit

FIELD SAMPLING DATA SHEET sample date/time sample ID field personnel < (lab) sample number BUC UUI project project number 12568.001.000observer weather conditions(estimate wind, cloud, precip, hymidity, temp) SAMPLE TYPE grab composite sediment surface water soil groundwater gas industrial storm sewer leachate other MONITORING WELL DATA other PVC steel casing diameter from well casing from protective casing static water level from well casing from protective casing bottom depth static water level indicator type | steel tape electronic other water volume in well linear conversion well condition MONITORING WELL PURGE DATA PVC bailer peristaltic pump suction pump submersible pump poly bailer teflon bailer other dedicated purge equipment? yes Ino elapsed time pumping rate number of bails bail volume well volumes volume purged 7.5 gal well evacuated? Wyes time purge complete 400 no SAMPLING DATA PVC bailer teflon bailer pump poly bailer direct poly cup tedlar bag stainless bucket hand corer hand auger stainless spoon split spoon other no dedicated sampling equipment? yes no metals field filtered? yes depth of sample sample containers PHYSICAL AND CHEMICAL DATA odor? no yes sediment? no yes color? no yes sheen immiscible product clear turbid other pH (SU) 52. temp (C) 14.5 cond (umhos) ORP (mV) turb (NTU) PID (ppm) comments / remarks



FIELD SAMPLING DATA SHEET sample date/time 5/14/94 sample ID field personnel ST CA RB BM k 003 NEI (lab) sample number Kin Buc Dul project observer project number 1 weather conditions(estimate wind, cloud, precip, humidity, temp) pleasant, 60's sunny SAMPLE TYPE composite groundwater surface water soil sediment leachate industrial gas storm sewer other MONITORING WELL DATA **PVC** other casing diameter steel from well casing from protective casing static water level from protective casing from well casing bottom depth 20.30 electronic static water level indicator type | steel tape other water volume in well , 9 4 linear conversion well condition and MONITORING WELL PURGE DATA PVC bailer submersible pump peristaltic pump suction pump poly bailer teflon bailer other dedicated purge equipment? yes elapsed time pumping rate bail volume number of bails 3.0 sv volume purged well volumes 11:45 well evacuated? yes no time purge complete SAMPLING DATA tefion bailer PVC bailer poly bailer pump direct stainless bucket poly cup tedlar bag hand auger stainless spoon split spoon hand corer other dedicated sampling equipment? wyes Ino metals field filtered? yes depth of sample sample containers PHYSICAL AND CHEMICAL DATA yes odor? no sediment? no yes color? Ino turbid immiscible product clear sheen PID (ppm) 1.3 ppm. pH (SU) 6,97 temp (C) ORP (mV) -0-2 turb (NTU) comments / remarks - not everyn surple for cond-simpled dry -FB-01 #001 -> pell basier -> filer fish 1235

			MPLING DATA OF	- J. J. +	
sample i	0 626	173	sample date/tin	ne 5/19/96	1240
(lab) sample number		NEI	field personn	nel SI GAR	B BM
projec			<del>-</del>		
project number		201.00	observ	er	
weather condition	S(estimate wind, clo	ud, precip, hu	midity, temp)	<b>A</b>	
	pleas	sout	60's, 5 wa	my clean	
SAMPLE TYPE	composite		grab	7	
	groundwater		surface water	soil	sediment
	leachate		industrial	storm sewer	gas
	other		U audatim.		_ <b>3</b>
WONTOON WELL D					
MONITORING WELL D	( ) K		PVC	Detect.	other
casing diamete	77.4	_	<u> </u>	∐ steel	_
static water leve		-	***	protective casing	
bottom dept		-	<u> </u>	protective casing	_
	tic water level inc	licator type		electronic	other
linear conversio		_	water volume in we	ell ,95 gr	<u>×</u>
well condition	u good		·		
MONITORING WELL P					
	∐submersible p	oump	peristaltic pump	suction pump	PVC bailer
	poly bailer		teflon bailer	other	
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SAMPLING DATA	pump stainless buck hand corer other cated sampling e	ket quipment?	well evacuated?  PVC bailer poly cup hand auger  yes	yes poly bailer tedlar bag stainless spoon	teflon bailer
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SAMPLING DATA  dedic  depth of sample contained  PHYSICAL AND CHEMIC	pump  stainless buck hand corer other cated sampling e metals fie ole rs  CAL DATA	Ket  quipment? eld filtered?	well evacuated?  PVC bailer poly cup hand auger  yes	yes poly bailer tedlar bag stainless spoon	teflon bailer
depth of sample contained  PHYSICAL AND CHEMIC Odor?	pump  stainless buck hand corer other cated sampling e metals fie cle ~ / f:  cated co	et quipment?	well evacuated?  PVC bailer poly cup hand auger  yes yes	yes poly bailer tedlar bag stainless spoon	teflon bailer
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depth of sample contained  PHYSICAL AND CHEMIC Odor?	pump  stainless buck hand corer other cated sampling e metals fie ole ~ / g  CAL DATA no no	quipment? eld filtered?  yes yes yes	well evacuated?  PVC bailer poly cup hand auger  yes yes	yes poly bailer tedlar bag stainless spoon no no	teflon bailer direct split spoon
dediction depth of sample contained physical and chemical physical and chemical physical and chemical physical and chemical physical and chemical physical and chemical physical and chemical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical physical ph	pump  stainless buck hand corer  other cated sampling e metals fie ole ors  CAL DATA no no clear	quipment? eld filtered?	well evacuated?  PVC bailer poly cup hand auger  yes yes	yes poly bailer tedlar bag stainless spoon	teflon bailer direct split spoon
depth of sample contained sample contained odor?	pump  stainless buck hand corer other cated sampling e metals fie ole ors CAL DATA no no clear other	quipment? eld filtered?  yes yes yes turbid	well evacuated?  PVC bailer poly cup hand auger  yes yes sheen	yes poly bailer tedlar bag stainless spoon no no	teflon bailer direct split spoon
depth of samp sample contained odor?  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump Stainless buck hand corer other cated sampling e metals fie ole ors CAL DATA no no clear other	quipment? eld filtered?  C.  yes yes yes turbid  temp (0	well evacuated?  PVC bailer poly cup hand auger  yes yes sheen  1 7.9	yes poly bailer tedlar bag stainless spoon no no immiscible produc	teflon bailer direct split spoon
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depth of sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample contained sample sample contained sample contained sample sample sample contained sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sample sampl	pump Stainless buck hand corer other cated sampling e metals fie ole ors CAL DATA no no clear other	quipment? eld filtered?  c.  yes yes yes turbid  temp (0 turb (NTI	well evacuated?  PVC bailer poly cup hand auger  yes yes sheen  7,9 J	yes poly bailer tedlar bag stainless spoon no no no PID (ppn	teflon bailer direct split spoon
depth of samp sample contained odor?  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump Stainless buck hand corer other cated sampling e metals fie ole ors CAL DATA no no clear other	quipment? eld filtered?  C.  yes yes yes turbid  temp (0	well evacuated?  PVC bailer poly cup hand auger  yes yes  I yes JA	yes  poly bailer tedlar bag stainless spoon  no no plo (umho	teflon bailer direct split spoon

	. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MPLING DATAS	)	-
sample ID	talak -	sample date/	time 5/14/96	1445
(lab) sample number		field perso		3.8m
project			<u>52,011,102</u>	
project number	12568.001.00	_ O obse	rver	
Wodings boliamond	estimate wind, cloud, precip, hu	sout, sun	wy 6615	
		-		
SAMPLE TYPE	composite	grab	_	
	groundwater	surface water	∐soil	sediment
	leachate	industrial	storm sewer	gas
	other			
MONITORING WELL DA	TA			
casing diameter	" 24	PVC	steel	other
static water level	22,15 from	<b>2</b>	om protective casing	
-		<u></u>	: :	
bottom depth_			om Uprotective casing	
	water level indicator type	_ '	electronic	other
linear conversion_	164.	water volume in	well 2.07 %	1
well condition	) tooch			
MONITORING WELL PUL	RGE DATA			
	submersible pump	peristaltic pump	suction pump	PVC bailer
Ī	poly bailer	teflon bailer	other	
_	<b>3</b> . •	=		
	dicated purge equipment?	And a	∐no	<b>!</b>
pumping rate		_ elapsed tir		
bail volume		_ number of ba well volum		
volume purged	1.04211025	weil voluiti	es 3.7 <u>0</u>	
tima muraa aanan lata		معمديم والمبد	42 1	
time purge complete		well evacuated	d?∏yes	no
time purge complete	1345			
		PVC bailer	g? yes	teflon bailer
	1345			
	<u>1345</u> ]pump	PVC bailer	poly bailer	teflon bailer
SAMPLING DATA	pump stainless bucket hand corer	PVC bailer	poly bailer tedlar bag	teflon bailer
SAMPLING DATA  [ [	pump stainless bucket hand corer other	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  [ [	pump stainless bucket hand corer other tted sampling equipment?	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  [ [ [ dedica	pump stainless bucket hand corer other ted sampling equipment? metals field filtered?	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  [ [ dedical	pump stainless bucket hand corer other ted sampling equipment? metals field filtered?	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  [ [ [ dedica	pump  stainless bucket  hand corer  other  ted sampling equipment?  metals field filtered?	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  [  dedical depth of sample sample containers	pump stainless bucket hand corer other ted sampling equipment? metals field filtered?	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
dedica  depth of sample sample containers	pump  stainless bucket  hand corer  other  ted sampling equipment?  metals field filtered?  2 2 3  See COC.	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
dedicated the sample containers  PHYSICAL AND CHEMIC odor?	pump  stainless bucket  hand corer  other  ted sampling equipment?  metals field filtered?  2 2  See CoC.	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
SAMPLING DATA  dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?	pump  stainless bucket  hand corer  other  ted sampling equipment?  metals field filtered?  2 2 3  CAL DATA  no yes  no yes	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
dedicated the sample containers  PHYSICAL AND CHEMIC odor?	pump  stainless bucket  hand corer  other  ted sampling equipment?  metals field filtered?  2 2 3  CAL DATA  no yes  no yes	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer
dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump stainless bucket hand corer other ted sampling equipment? metals field filtered? 2 2 See CoC  AL DATA no yes no yes no yes	PVC bailer poly cup hand auger  yes yes	poly bailer tedlar bag stainless spoon no no	teflon bailer direct split spoon
dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump stainless bucket hand corer other ted sampling equipment? metals field filtered?  2 2 3  SAL DATA no yes no yes clear turbid	PVC bailer poly cup hand auger	poly bailer tedlar bag stainless spoon	teflon bailer direct split spoon
dedicated dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump stainless bucket hand corer other ted sampling equipment? metals field filtered? 2 2 See CoC  CAL DATA no yes no yes no clear other	PVC bailer poly cup hand auger  yes yes sheen	poly bailer tedlar bag stainless spoon no no ino	teflon bailer direct split spoon
dedicated dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump  stainless bucket hand corer other  ted sampling equipment? metals field filtered?  AL DATA no yes no yes clear turbid other  5.20 temp (	PVC bailer poly cup hand auger  yes yes sheen	poly bailer tedlar bag stainless spoon no no immiscible production	teflon bailer direct split spoon  tot
dedicated dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	pump stainless bucket hand corer other ted sampling equipment? metals field filtered? 2 2 See CoC  CAL DATA no yes no yes no clear other	PVC bailer poly cup hand auger  yes yes sheen	poly bailer tedlar bag stainless spoon no no ino	teflon bailer direct split spoon  tot
dedicated dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	pump  stainless bucket hand corer other  ted sampling equipment? metals field filtered?  AL DATA no yes no yes clear turbid other  5.20 temp (	PVC bailer poly cup hand auger  yes yes sheen	poly bailer tedlar bag stainless spoon no no immiscible production	teflon bailer direct split spoon  tot
dedicated dedicated depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	pump  stainless bucket hand corer other  ted sampling equipment? metals field filtered?  AL DATA no yes no yes clear turbid other  5.20 temp (	PVC bailer poly cup hand auger  yes yes sheen	poly bailer tedlar bag stainless spoon no no immiscible production	teflon bailer direct split spoon  tot



				<u> </u>	1/0-
sample ID	W56		sample date/tim		/600
(lab) sample number		NET	field personn	el <u>SI,GA,RE</u>	3, BM
project		oc oul	<del>_</del>		
project number		<u>001.00</u>		er	
weather conditions		oud, precip, hu	midity, temp)	ut, 60's	•
		ar, w	www. pleks	(,01)	
SAMPLE TYPE	composite		grab	•	
·	groundwate	r	surface water	soil	sediment
	leachate		industrial	storm sewer	gas
	other			<u>.</u>	_
MONITORING WELL DA	· · · · · · · · · · · · · · · · · · ·				
casing diameter	$\sim 10$		PVC	steel	other
static water level	~ ~ ~ ~	from	<u> </u>	protective casing	
bottom depth			<b>5</b>	protective casing	
•		<del></del>	<b>=</b>	electronic	other
station linear conversion	c water level in	dicator type	water volume in we	<b>a</b>	Ottlet
well condition	ON TO	N .	water volume in we	"	
MONITORING WELL PU					
MUNITURING WELL PO	submersible	numn	peristaltic pump	suction pump	PVC bailer
[	poly bailer	pamp	teflon bailer	other	<u> </u>
į.			<b>2</b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·
	dicated purge	equipment?	<del></del>	_] no	
pumping rat bail volum			elapsed time number of bails		
volume purge		3nl	_ well volumes		_
time purge complete		5	well evacuated?		no
SAMPLING DATA					
	pump		PVC bailer	poly bailer	teflon bailer
	stainless buc	kat	poly cup	tedlar bag	direct
	hand corer	rec	hand auger	stainless spoon	split spoon
Ĺ	<del>_</del>		Unand adger	_ stairliess spoon	
	other				
dedica	ated sampling		<b>I</b> I	∐ no	
to the second		eld filtered?	yes	∐no	
depth of sample sample container			<del>-</del>		
sample container	s see coc	<u> </u>			
PHYSICAL AND CHEMIC	CAL DATA				
odor?		yes			
sediment?	= =	yes	NA		
_		_j* ann	DIL		· · · · · · · · · · · · · · · · · · ·
color?		yes	Dlack	7:	
Ĺ	₹ *	turbid	sheen	jimmiscible produc	τ
	∫other				1313Cd
pH (SU)_	6.01	temp (	·	cond (umhos	
ORP (mV)	-4.4	turb (NTI	J)	PID (ppm	) <u>, a.</u>
comments / remarks	W/S #	2011			
<del>-</del>		1/0			
	M50	# C1/			



FIFI D SAMPLING DATA SHEET sample date/time 123S sample ID field personnel ST GA RB BM (lab) sample number # 018 Kin Buc DU project project number 12568, 001, 000 observer weather conditions (estimate wind, cloud, precip, humidity, temp) pleasun, 60's, Synny SAMPLE TYPE composite grab groundwater surface water soil sediment industrial leachate storm sewer gas other MONITORING WELL DATA PVC other steel casing diameter static water level from well casing from protective casing from well casing from protective casing bottom depth static water level indicator type steel tape electronic other water volume in well 1,84 gallens linear conversion well condition MONITORING WELL PURGE DATA PVC bailer peristaltic pump suction pump submersible pump other poly bailer teflon bailer dedicated purge equipment? yes no pumping rate elapsed time bail volume number of bails 3.26 well volumes volume purged 6-00 gal well evacuated? | yes time purge complete SAMPLING DATA pump PVC bailer poly bailer teflon bailer direct stainless bucket poly cup tedlar bag split spoon hand corer hand auger stainless spoon other dedicated sampling equipment? yes no metals field filtered? yes no depth of sample sample containers See Coc PHYSICAL AND CHEMICAL DATA yes odor? no sediment? no yes color? no yes immiscible product turbid sheen clear other pH (SU) C.50 temp (C) cond (umhos) ORP (mV) /6/2 turb (NTU) PID (ppm) .3 ppm. comments / remarks

	<u> </u>	D		ate/time 5/14/96	1545
sample IC	<del></del>	K.	sample da		
(lab) sample number		161		rsonnel ST, GA, R	.D, UT)
projec		SUC DUI		bserver	
project number weather conditions	·/ontinonto vind	alaud propin	humidity tamp		
Weather Conditions	S(esurrate Wilk)	en, ple	asout, 60	's, snowy	
SAMPLE TYPE	composite	•	grab	_	
	groundwa	ter	surface water	soil	sediment
	leachate		industrial	storm sewer	gas
	other			·	
MONITORING WELL DA	ITA 11		_4		
casing diameter	r <u>2"</u>	·	PVC	steel	other
static water level	<u> 19.67</u>	fro	om well casing	from protective casing	3
bottom depth	53.46	tro	om well casing	from protective casing	9
stati			oe 🗌 steel tape	electronic	other
linear conversion			water volume	in well <u>5.41</u>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
well condition	<u></u>	দেও •			
MONITORING WELL PU		-			
	U submersib	•	peristattic pum	`	PVC bailer
	poly bailer		teflon bailer	other	
de	dicated purg	je equipmen	t? 🛮 yes	no	
pumping rat			elapsed		
bail volum			number o		<del></del>
volume purge		المعرب	well vol		
time purge complet	le 172	<u> </u>	well evacua	ited:   yes	no
SAMPLING DATA	pump	•	PVC bailer	poly bailer	teflon bailer
	∏stainless b	unkat	poly cup	tedlar bag	direct
			<u> </u>		
	∐hand core □	ſ	hand auger	stainless spoon	split spoon
·	∐ other				
dedica	ated samplin			∐no	
damatr = # 4		s field filtered	d? <b>∭</b> yes	∐no	
depth of sample		<u> </u>			
sample container	see co	<u> </u>			
PHYSICAL AND CHEMIC	CAL DATA				
odor?		yes	•		
sediment?	<u>=</u>	yes	bie 6°		
color?	_	yes			
	Aclear	turbid	sheen	immiscible produ	uct
,	other		U	U	<del></del>
ا pH (SU)	_ ^	temp	(c) 17.7	cond (umho	os) 6000
ORP (mV)		turb (N			m) 22,9 in a
comments / remarks	10.0	1010 (14	-	, 15 (bb	"" <u>"                                  </u>
•			· · · · · · · · · · · · · · · · · · ·		



sample ID	W4G		sample date	e/time_	5/14/96	1316
(lab) sample number	#004	NEI_	field pers	onnel	SI GAR.	B BM
project	Kin Buc			_		
project number_				server		
weather conditions(	estimate wind, cloud,	precip, hum	nidity, temp)			
		pup	int, 60's,	310	vy	
SAMPLE TYPE [	composite		grab		,	÷
	groundwater	[	surface water		soil	sediment
l ·	leachate	Ī	industrial	Π	storm sewer	gas
Ī	other		<b>.</b>			<u>.</u>
MONITORING WELL DAT						
casing diameter	~2"	ĺ	PVC	Π:	steel	other
static water level	9.21	from	well casing	느	protective casing	<u> </u>
bottom depth	17.37	2		=	protective casing	
·	water level indica				electronic	other
linear conversion	164		water volume in	-	ار 1,33	
well condition	Josh			-		·
MONITORING WELL PUR						-
	submersible pur	np [	peristaltic pump	Π:	suction pump	PVC bailer
	poly bailer		teflon bailer	=	other	
_			-	0		
pumping rate	licated purge equ	ipment:	yes elapsed t	∐ t time	10	
bail volume			number of b	******		<del></del>
volume purged			well volur		1.5	0
time purge complete	_	7	well evacuate	ed? 🎚		no
SAMPLING DATA						
	pump	. [	PVC bailer		ooly bailer	* teflon bailer
	stainless bucket	-	poly cup	_ = '	edlar bag	direct
	hand corer	-	hand auger	=	stainless spoon	split spoon
	other	L		<b>□</b> `	stanness opeon	
	ted sampling equ	inment?	I.voo	Π.		
dedical		·	yes	( ) )	10	
	املح المقصمة	EU 10	<b>.</b>	=		
denth of sample	metals field	filtered?	yes	Ŭ,		
depth of sample	15	filtered?	yes	=		
depth of sample sample containers	15	filtered?	yes	=		
sample containers	su coc.	filtered?	yes	=		
sample containers  PHYSICAL AND CHEMIC	SLL CCC .		yes	=		
sample containers  PHYSICAL AND CHEMIC  odor?	SLL CCC .  AL DATA  no hye	es _	yes	=		
sample containers  PHYSICAL AND CHEMIC  odor?  sediment?	SLL CoC .  AL DATA  no ye  no ye	es _	NA Vellow / mee	<u> </u>		
sample containers  PHYSICAL AND CHEMIC  odor?  sediment?  color?	SLL CeC .  AL DATA  no ye  no ye	es	NA Yellow / gree		no	ot .
sample containers  PHYSICAL AND CHEMIC  odor?  sediment?  color?	AL DATA  no ye  no ye  clear [] tui	es	NA ,			ot
sample containers  PHYSICAL AND CHEMIC  odor?  sediment?  color?	SLL CeC  AL DATA  no ye  no ye  clear tur  other	es _ es _ es	NA Yellow / gree Isheen		mmiscible produ	
sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU)	SLL CoC .  AL DATA  no ye  no ye  clear [] tui  other  7.40	es es rbid [	NA Yellow / yell Jsheen		mmiscible produc	9 4250
sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	SLL CoC .  AL DATA  no ye  no ye  clear [] tui  other  7.40	es _ es _ es	NA Yellow / yell Jsheen		mmiscible produ	s) 4250
sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU)	SLL CoC .  AL DATA  no ye  no ye  clear [] tui  other  7.40	es es rbid [	NA Yellow / yell Jsheen		mmiscible produc	s) 4250
sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	SLL CoC .  AL DATA  no ye  no ye  clear [] tui  other  7.40	es es rbid [	NA Yellow / yell Jsheen		mmiscible produc	s) 4250



SAMPLE TYPE
weather conditions (estimate wind, cloud, precip, humidity, temp)    Composite
weather conditions(estimate wind, cloud, precip, humidity, temp)    Composite
SAMPLE TYPE
Gomposite   grab   grab   groundwater   surface water   soil   sediment   gas   groundwater   gas   groundwater   gas   groundwater   gas   groundwater   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas   gas
groundwater   surface water   soil   sediment   gas   leachate   industrial   storm sewer   gas   gas   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   moun
groundwater   surface water   soil   sediment   gas   leachate   industrial   storm sewer   gas   gas   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   mount   moun
leachate   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   o
Other   Other   Other   Other   Static water level   10.56   from   well casing   from   protective casing   bottom depth   31.34   from   well casing   from   protective casing   static water level   indicator fixpe   steel tape   electronic   other   water volume in well   2.24   call
casing diameter 2 //
static water level 18.56 from well casing from protective casing bottom depth 21.3 from well casing from protective casing static water level indicator from well casing from protective casing static water level indicator from well casing from protective casing static water level indicator from well casing from protective casing static water level indicator from well casing from protective casing from protective casing static water level indicator from well casing from protective casing from protective casing from protective casing from well casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing from protective casing selections from protective casing from protective casing selectronic casing protective casing selectronic casing protection protective casing selectronic casing protections from protective casing selectronic casing protections from protection protection from protection protection from protection protection from protec
bottom depth 21.34 from well casing from protective casing static water level indicator type steel tape electronic other linear conversion .164 water volume in well 2.04 gc.).  MONITORING WELL PURGE DATA  Submersible pump peristaltic pump suction pump PVC bailer other dedicated purge equipment? yes no pumping rate elapsed time number of bails well volume volume purged time purge complete 1436 well evacuated? yes no stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon depth of sample 12.04 gc.).
bottom depth 21.34 from well casing from protective casing static water level indicator type steel tape electronic other linear conversion .164 water volume in well 2.04 gc.).  MONITORING WELL PURGE DATA  Submersible pump peristaltic pump suction pump PVC bailer other dedicated purge equipment? yes no pumping rate elapsed time number of bails well volume volume purged time purge complete 1436 well evacuated? yes no stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon depth of sample 12.04 gc.).
static water level indicator type steel tape water volume in well 20434    Sept.   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume in well 20434   Water volume pump peristatic pump suction pump PVC bailer other dedicated purge equipment?   Water volume pump peristatic pump water in the first pump pumping rate alapsed time pumping rate water volumes well volumes well volumes well volumes   Water volume pump pumping rate water volume pump pumping rate water volume pump pumping rate water volume pump pumping rate water volume pump pumping rate pumping rate volumes   Water volume pump pumping rate pumping rate volumes   Water volume pump pumping rate volumes   Water volume pump pumping rate volumes   Water volume pump pumping rate volumes   Water volume pump pumping rate volumes   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water volume in well   20434   Water v
Water volume in well   2.0494
well condition Good MONITORING WELL PURGE DATA  Submersible pump peristaltic pump suction pump PVC bailer  poly bailer teflon bailer other  dedicated purge equipment? yes no  pumping rate elapsed time number of bails  volume purged well volumes well volumes well volumes well evacuated? yes no  SAMPLING DATA  PVC bailer poly bailer teflon bailer  stainless bucket poly cup tedlar bag direct  hand corer hand auger stainless spoon split spoon  other  dedicated sampling equipment? yes no  metals field filtered? yes no  depth of sample 12 14
Submersible pump   peristaltic pump   suction pump   PVC bailer   dedicated purge equipment?   yes   no   pumping rate   bail volume   volume purged   volume purged   time purge complete   1436   well evacuated?   yes   yes   no   stainless bucket   poly cup   tedlar bag   direct   hand corer   hand auger   stainless spoon   split spoon   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   no   depth of sample   127   yes   no   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no   depth of sample   127   yes   no   no     yes   no   no     yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   no   yes   yes   no   yes   yes   no   yes   yes   yes   no   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes   yes
poly bailer   teflon bailer   other   dedicated purge equipment?   yes   no   pumping rate   elapsed time   number of bails   volume purged   volumes   volume purged   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   vell volumes   v
dedicated purge equipment? yes
dedicated purge equipment? yes
pumping rate bail volume bail volume volume purged wby well volumes well volumes well volumes well volumes well evacuated? yes no  SAMPLING DATA    pump
bail volume volume purged volume purged well volumes well volumes well volumes volumes purge complete 1436 well evacuated? yes no  SAMPLING DATA    pump
time purge complete 1436 well evacuated? yes no  SAMPLING DATA    pump
pump   PVC bailer   poly bailer   teflon bailer   stainless bucket   poly cup   tedlar bag   direct   hand corer   hand auger   stainless spoon   split spoon   other   dedicated sampling equipment? yes   no   metals field filtered? yes   no   depth of sample   121
pump PVC bailer poly bailer teflon bailer stainless bucket poly cup tedlar bag direct hand corer stainless spoon split spoon other dedicated sampling equipment? yes no metals field filtered? yes no depth of sample
stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon other dedicated sampling equipment? yes no metals field filtered? yes no depth of sample
hand corer hand auger stainless spoon split spoon other dedicated sampling equipment? yes no metals field filtered? yes no depth of sample
other  dedicated sampling equipment? yes no  metals field filtered? yes no  depth of sample 121
other  dedicated sampling equipment? yes no  metals field filtered? yes no  depth of sample 121
dedicated sampling equipment? yes no  metals field filtered? yes no  depth of sample 12   no
metals field filtered? yes no no depth of sample 121
depth of sample 12/
PHYSICAL AND CHEMICAL DATA
odor? 🗌 no 💮 yes
sediment? no lyes N4
color? no yes
clear turbid sheen immiscible product
other
pH (SU) 6.67 temp (C) 15.1 cond (umhos) 6000
ORP (mV) 13.5 turb (NTU) PID (ppm) .8¢
comments / remarks
DUP pertirued # 012



ORP (mV)

comments / remarks

FIFI D SAMPLING DATA SHEET WH-R sample date/time sample ID (lab) sample number NEL#013 field personnel SI GA RB BM Kin Buc O.U. project project number 12568.001.000 observer Weather conditions(estimate wind, cloud, precip, humidity, temp) nlessant SAMPLE TYPE composite sediment surface water groundwater soil gas industrial storm sewer leachate other MONITORING WELL DATA 211 **PVC** other casing diameter steel 18.60 from well casing from | protective casing static water level 64.87 from well casing from protective casing bottom depth static water level indicator type | steel tape electronic other water volume in well 5.80 gw linear conversion well condition MONITORING WELL PURGE DATA PVC bailer submersible pump peristaltic pump suction pump poly bailer teflon bailer other dedicated purge equipment? yes pumping rate elapsed time bail volume number of bails 18.00 well volumes volume purged well evacuated? yes no 1430 time purge complete SAMPLING DATA PVC bailer teflon bailer poly bailer pump stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon other no dedicated sampling equipment? yes metals field filtered? yes no depth of sample sample containers See coc PHYSICAL AND CHEMICAL DATA odor? no ves sediment? no yes color? turbid clear sheen immiscible product pH (SU)\_ 6.55 7000 cond (umhos)

turb (NTU)

PID (ppm)

EMCON

			<del></del>	25115
sample ID		sample date/		0948
(lab) sample number			nnel ST GA R	R BW
project				
project number		<del></del>	erver	
weather conditions	(estimate wind, cloud, precip,	humidity, temp)		
	clear, co	1, 50-60'5		
SAMPLE TYPE	composite	grab		
	groundwater	surface water	soil	sediment
	leachate	industrial	storm sewer	gas
	other	5	<b>~</b>	_
MONITORING WELL DA				
casing diameter	<b>↑</b> #	PVC	steel	other
static water level		<u>₩</u>	om ∏protective casing	
bottom depth			om protective casing	
, -			electronic	other
station linear conversion	water level indicator ty		well 1.8390	2 1011161
well condition		water volume in	Well	
MONITORING WELL PU	geod RCE DATA			
	submersible pump	peristattic pump	suction pump	PVC bailer
<u> </u>	ξ	<u></u>	other	Ur vo baner
•	poly bailer	tefion bailer	∐ otner	
	dicated purge equipmer	<del></del>	∐no	
pumping rate		elapsed tin		
bail volume		number of ba well volume		<del>- Landa</del>
volume purge		well evacuated		no
time purge complete	0723	Well evacuated	i:	<u> </u>
SAMPLING DATA	7	PVC bailer	poly bailer	teflon bailer
Ĺ	]pump	20	5	<u> </u>
	stainless bucket	∐poly cup	∐tedlar bag	direct
<u> </u>	hand corer	hand auger	stainless spoon	split spoon
	other			
dedica	ted sampling equipmen		no	
	metals field filtered	d? 🛮 yes	no	
depth of sample	9			
sample containers	see coc			
PHYSICAL AND CHEMIC			•	
odor?		- E//		
sediment?	± '	NA		·
color?	no yes	Black		
	clear turbid	sheen	immiscible produ	ct
	other		·	
pH (SU)	6.78 temp	(C) /3.9	cond (umho	s). 2.000
ORP (mV)				n)
comments / remarks				
				·



sample ID		sample date/t		0930
(lab) sample number		field persor	nnel <u>ST CARI</u>	3 BM
project				•
project number			rver	
weather conditions	(estimate wind, cloud, precip, h	umidity, temp)	. 0( -	
	clean	600 , 50- B	50.5	
SAMPLE TYPE	composite	grab		
	groundwater	surface water	Soil	sediment
	leachate	industrial	storm sewer	∏gas
	other			
MONITORING MELL DA				
MONITORING WELL DA	U	PVC	steel	other
casing diameter				Other
static water level	A A A	<b>-</b>	m   protective casing	
bottom depth		=	m Uprotective casing	
	water level indicator type			other
linear conversion	. 164	water volume in v	veli 1.15 yal	<del></del>
well condition_	Good			
MONITORING WELL PU	<del>-</del>	Π.	<b>(7)</b>	
	submersible pump	peristaltic pump	suction pump	☐ PVC bailer
Ĺ	poly bailer	teflon bailer	other	
dec	dicated purge equipment	? 🛮 yes	∏no	
pumping rate		elapsed tim	ne	
bail volume	9	number of bai		
volume purged		well volume		
time purge complete	0940	well evacuated	? <b>//</b> yes	∐no
SAMPLING DATA				
	]pump	PVC bailer	poly bailer	teflon bailer
	stainless bucket	poly cup	tedlar bag	direct
	hand corer	hand auger	stainless spoon	split spoon
Ī	other			
	ted sampling equipment?	2 Ves	no	
acaioa	metals field filtered?	<b>X</b> '	∏no	
depth of sample	~	: yes	Пио	
sample containers		<del></del>		
•			· · · · · · · · · · · · · · · · · · ·	
PHYSICAL AND CHEMIC	CAL DATA			
odor?		•		
sediment?		Brown Gray.		
color?	= = :	0,000,1		
rate of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the co		sheen	immiscible produc	.,
•	_	☐ sueen	Unumsciple blodge	, <b>.</b>
	other	(a) 1/ 1J		10.000
· · · · · · · · · · · · · · · · · · ·		(c) 16.4	cond (umhos	
ORP (mV)	- 7/1.7 turb (NT	U)	PID (ppm	) <u> </u>
comments / remarks				



			=tust=c	// 3 ==
sample II		sample date/tir		1635
(lab) sample number	=1 #019 NET	field personi	nel <u>SI, GA, R.</u>	B BW
projec	et Kin Buc OUI		•	
project number	er 12568.001.00	observ	/er	
weather condition	S(estimate wind, cloud, precip., h	umidity, temp)		
	war ple	as aut 60's	, & uny	
SAMPLE TYPE	composite	grab		
OAM EL TIL	<u> </u>	surface water	Soil	sediment
	groundwater		<b>=</b>	Ä
	leachate	industrial	storm sewer	∐gas
	other			
MONITORING WELL D	ATA OU			
casing diamete	er 21	PVC	steel	other
static water leve	el 22.76 from	n well casing from	protective casing	
bottom dept		<b>T</b>	protective casing	
	tic water level indicator type	~	electronic	other
linear conversion		water volume in w	- A C	
well condition		water volume in w	en	- The
MONITORING WELL PL		Π	п	
·	submersible pump	peristaltic pump	suction pump	☐ PVC bailer
	poly bailer	teflon bailer	other	
de	edicated purge equipment?	? 🖥 ves	∏no	
pumping ra		elapsed time	<u>~</u>	
bail volun		number of bails		
volume purge	ed 10 gal.	well volumes	3.34	
time purge comple		well evacuated?	yes	no
SAMPLING DATA				
J. 1.7.1	pump	PVC bailer	poly bailer	teflon bailer
	stainless bucket	20	tedlar bag	direct
	3	∐poly cup	<u> </u>	8
	hand corer	hand auger	stainless spoon	split spoon
	other			
dedic	ated sampling equipment?	yes	no	
	metals field filtered?	yes	no	
depth of samp			<b>_</b>	
sample containe	rs see coc	<del>-</del>		
·				
PHYSICAL AND CHEMI	CAL DATA	(. I i		
odor?		6/ight		
sediment?	= =	acqueol+		
		D. At sower		
color?	= =	Π.	Π	
	∐clear turbid	sheen	immiscible produc	ct
	other			
pH (SU)	7.09 temp (	c) 16.2	cond (umhos	s) 17000
ORP (mV)		U)	PID (ppn	n)
comments / remarks	*			



sample ID	WGG	sample date/tim	ne 5/15/96	1015
(lab) sample number N		•	el SI GA RE	
project	Kin Buc OUI	•	<u> </u>	
project number	12568.001.000	observe	er	
weather conditions(es	stimate wind, cloud, precip, hur			
	Sunny, partly c		ip 70°	
SAMPLE TYPE	composite	grab		
	groundwater	surface water	soil	sediment
·	leachate	industrial	storm sewer	gas
	other			
MONITORING WELL DATA	4			
casing diameter_	2"	PVC	steel	other
static water level	11.94 from	well casing from	protective casing	
bottom depth_	23.78 from	well casing from	protective casing	
static v	vater level indicator type	steel tape	electronic	other
linear conversion_	1164	water volume in we	1-19 jol	
well condition_	900d		<u> </u>	·
MONITORING WELL PURC	,			
	submersible pump	peristaltic pump	suction pump	∐PVC bailer
	ooly bailer	teflon bailer	other	
dedic	cated purge equipment?	yes [	no	
pumping rate_		elapsed time		_
bail volume_		number of bails		
volume purged_	4.00	well volumes		नि
time purge complete_	9/0	well evacuated?	_ yes	no
SAMPLING DATA	ſ	¬ ,	<b>-</b> 7	550
ີ່ ເ	oump [	Ξ ;	_ poly bailer	teflon bailer
	stainless bucket	poly cup	tedlar bag	direct
<b> </b>	nand corer	hand auger	stainless spoon	split spoon
	other			
dedicate	d sampling equipment?	yes	no	
	metals field filtered?	yes	no	
depth of sample_	~15	_		
sample containers_	su coc		·	
DUNGO AL ALIA STATE				
<i>PHYSICAL AND CHEMICA</i> odor?	. COD			
=	<u> </u>	9 40 4		
sediment? ∐ r	æ	910/		
color? 🛭 r	<b>—</b> — — — — — — — — — — — — — — — — — —	71	<b>7</b> .	
7	<b>.</b>	sheen	immiscible product	
	other	. 10 • 1		
pH (SU)	temp (C		cond (umhos)	
ORP (mV)	$2/.\xi$ turb (NTU	)	PID (ppm)	) <del></del>
comments / remarks				



1/65		cample date	time 6/15/96	0950
	Er			
		Heid person	SI 011 K	5,017
/ /**		⊃ obse	rver	
		nidity, temp)	<u> </u>	
	ar, c	001 50-68	5	
composite	<u></u>	grab		
=		surface water	soil	sediment
leachate		industrial	storm sewer	gas
				٠
				- 11- Table 1- 11- 11- 11- 11- 11- 11- 11- 11- 11-
/		PVC	Steel	other
		エ	m protective casing	
			= '	
			<u>_</u>	other
_ · · ·	JP -	<del></del>	~	<b>.</b>
RGE DATA				
submersible pun	np	peristattic pump	suction pump	PVC bailer
poly bailer		teflon bailer	other	
	ipment?	ves	∏no	
	4		<u> </u>	
		number of ba		
e <u> </u>		well evacuated	l?	no
· -1	ı	n		
	1	36	0.	teflon bailer
stainless bucket		poly cup	tedlar bag	∐direct
hand corer	ļ	hand auger	stainless spoon	split spoon
other				
ated sampling equi	ipment?	yes	no	
	filtered?	yes	no	
s See Cec		· · · · · · · · · · · · · · · · · · ·		
CALDATA				
	s			
<del></del>	-	4184		•
	•			
<u> </u>		sheen	Dimmiscible produc	¬t
_ Clear	i Dia	_ one en	U il il il il il il il il il il il il il	J.
othor				
other	tomn (C	1167	and limbs	1 In Can
7.21	temp (C	*	cond (umho	
7.21	temp (C urb (NTU	·	cond (umho PID (ppn	
7.21	• • •	·	· · · · · · · · · · · · · · · · · · ·	
	composite composite groundwater leachate leachate other  TA  CALLATA no  CALLATA no  CALLATA no  Calcate  CALLATA no  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Calcate  Ca	HOPZ NET   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   100	field person    PVC   PVC   PvC   PvC   PvC	field personnel ST CA R    SC OUL   COC   Cobserver



			******	
sample I		sample d	late/time 5/15/96	1035
(lab) sample numbe	er # 024 NE	T field pe	ersonnel ST GA R	BBM
projec				
project numbe	r 12568. ∞		bserver	
		precip, humidity, temp)		
	cloo	, wol 50 - 6	5015	
SAMPLE TYPE	Composite	grab		
	<u>~</u>	surface water	[]aaii	sediment
	groundwater	2	. = .	5
	leachate	industrial	storm sewer	∐gas
	other			
MONITORING WELL D	ATA C			
casing diamete		PVC	steel	other
static water leve	el 22.58	from <b>well casing</b>	from protective casing	]
bottom depti	h_ 50.21	from <b>well</b> casing	from protective casing	<b>)</b>
stat		ator type steel tape	electronic	, 🗌 other
linear conversion		water volum	e in well 4. 42 90	<u></u>
well condition	1	Bailer stucking		
MONITORING WELL PL	JRGE DATA			
	submersible pur	mp peristaltic pum	p suction pump	PVC bailer
	poly bailer	teflon bailer	other	
. 4	edicated purge equ	_	no	
pumping ra		elapse		
bail volun		· · · · · · · · · · · · · · · · · · ·		
ı Dali Voluli	ne	number o	of bails	
		number o well vo		
volume purge	ed 7,59wl	well vo	lumes 1.70	 no
volume purge time purge comple	ed 7.59wl	well vo		no
volume purge	ed 7.5gul. te 1020	well evacu	ated? yes	
volume purge time purge comple	ed 7,5gul te 1020	well vo	ated? yes	teflon bailer
volume purge time purge comple	ed 7.594. te 1020  pump stainless bucket	well vo well evacu  PVC bailer  poly cup	ated? yes  poly bailer tedlar bag	teflon bailer
volume purge time purge comple	pump stainless bucket	well vo well evacu  PVC bailer  poly cup hand auger	ated? yes	teflon bailer
volume purge time purge comple SAMPLING DATA	pump stainless bucket hand corer other	well vo well evacu  PVC bailer  poly cup hand auger	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple SAMPLING DATA	pump stainless bucket hand corer other stated sampling equ	well vo well evacu  PVC bailer  poly cup hand auger  enstalia	ated? yes  poly bailer tedlar bag	teflon bailer
volume purge time purge comple SAMPLING DATA dedic	pump stainless bucket hand corer other ated sampling equ	well vo well evacu  PVC bailer  poly cup hand auger	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple SAMPLING DATA  dedic	pump stainless bucket hand corer other ated sampling equipmetals field	well vo well evacu  PVC bailer  poly cup hand auger  enstalia	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple SAMPLING DATA dedic	pump stainless bucket hand corer other ated sampling equipmetals field	well vo well evacu  PVC bailer  poly cup hand auger  enstalia	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe	pump stainless bucket hand corer that sampling equivale  metals field rs	well vo well evacu  PVC bailer  poly cup hand auger  enstalia	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe	pump stainless bucket hand corer other ated sampling equinates field le See Coc	well vo well evacu  PVC bailer poly cup hand auger enstaliac ipment? Ø yes filtered? ¶ yes	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor?	pump stainless bucket hand corer that description of the stainless bucket metals field second of the stainless bucket  CAL DATA no	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment?	pump stainless bucket hand corer other ated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated sampling equinated equinated sampling equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equinated equin	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer that desampling equence metals field le 30  CAL DATA no no ye no ye no	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon  no no	teflon bailer direct split spoon
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer that desampling equence metals field le 30  CAL DATA no no ye no ye no	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon	teflon bailer direct split spoon
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer that desampling equence metals field le 30  CAL DATA no no ye no ye no	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon  no no	teflon bailer direct split spoon
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer that desampling equivalent seld le 30  CAL DATA no ye no ye clear tu other	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes	ated? yes  poly bailer tedlar bag stainless spoon  no no	teflon bailer direct split spoon
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer other ated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated sampling equated equated sampling equated sampling equated sampling equated sampling equated equated sampling equated equated sampling equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equated equat	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes  es es es es es thid sheen	ated? yes  poly bailer tedlar bag stainless spoon  no no	teflon bailer direct split spoon  ct
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?	pump stainless bucket hand corer other ated sampling equivalence  CAL DATA no no ye clear other tu  other	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes  s s rbid sheen  temp (C) 18./	ated? yes  poly bailer tedlar bag stainless spoon  no no immiscible produ	teflon bailer direct split spoon  ct
volume purge time purge comple  SAMPLING DATA  dedic  depth of samp sample containe  PHYSICAL AND CHEMI odor? sediment? color?  pH (SU) ORP (mV)	pump stainless bucket hand corer other ated sampling equivalence  CAL DATA no no ye clear other tu  other	well vo well evacu  PVC bailer poly cup hand auger  ipment? yes filtered? yes  s s rbid sheen  temp (C) 18./	ated? yes  poly bailer tedlar bag stainless spoon  no no immiscible produ	teflon bailer direct split spoon  ct

	FIELD	SAMPLING DATA S	11661	
sample II	0 117 13	sample date/t	ime 5/15/96	1300
(lab) sample numbe		field persor	nel SI GAR	BBM
projec		7		
project numbe			rver	
1	S(estimate wind, cloud, precip	, humidity, temp)	,	
	clear	cect, 50-60	3	
SAMPLE TYPE	composite	grab		
	groundwater	surface water	soil	sediment
	leachate	industrial	storm sewer	∏gas
	other	Unidustrial	1 storm server	၂ မွှေ
MONITORING WELL DA		PVC	[] stool	other
casing diamete		<b>2</b>	∐steel	Other
static water leve	~(0)		m   protective casing	
bottom depth			m protective casing	
	ic water level indicator ty		electronic	other
linear conversior		water volume in v	vell	<del></del>
well condition				-
MONITORING WELL PL		` <b>n</b>		П
	submersible pump	peristaltic pump	suction pump	PVC bailer
	∐poly bailer	teflon bailer	other	
de	edicated purge equipme	nt?	∏no	
pumping ra		elapsed tim	ne	
bail volum		number of bai		
volume purge	ed	well volume		75
time purge comple	te	well evacuated	?∐yes	no
SAMPLING DATA				
	pump	PVC bailer	poly bailer	teflon bailer
	stainless bucket	poly cup	tedlar bag	direct
•	hand corer	hand auger	stainless spoon	split spoon
	other	<b>-</b>		
dedic	ated sampling equipme	nt? yes	∏no	
	metals field filtere	<b>T</b>	∏no	
depth of samp	-/ 6 /			•
sample containe	·			
PHYSICAL AND CHEMIC	CAL DATA			
odor?	no yes			
sediment?	no yes	NA		
color?	no yes	Black of she	Λ .	
	clear turbid	sheen	immiscible produ	ot .
	other	<b>4</b>	Uoibie bioda	
≈U (OLN	U	n(n) 13 7	acad (t-	5300
	<del></del>	o (C) 13.2	cond (umho	·
ORP (mV) comments / remarks	<u></u>	410)	PID (ppn	V
comments / remarks				



			/ / /	
sample ID		sample date/t	time $5/15/96$	1130
(lab) sample number	M FSOK	field persor	nnel SI GAR	B, BM
project	Kin Buc Ol	<del>U</del>		
project number			rver	
weather conditions	(estimate wind cloud, preci	ip, humidity, temp) Colf ( LOGE (S		
		19, 29, 20, 2000		
SAMPLE TYPE	composite	grab		. •
	groundwater	surface water	Soil	sediment
	leachate	industrial	storm sewer	∏gas
 	other	D	Пототите	[]9
MONITORINO WELL DA				`
MONITORING WELL DA casing diameter	<b>- 11</b>	PVC	steel	other
1		<b>\$</b>		<b>U</b>
static water level			m ∐ protective casing	
bottom depth		=	m protective casing	
1	water level indicator:		electronic	other
linear conversion	.164	water volume in v	well 3.0dgal	<del></del>
well condition	good			
MONITORING WELL PUI	~	П		D=
	submersible pump	peristaltic pump	suction pump	PVC bailer
	∫poly bailer	teflon bailer	other	
dec	dicated purge equipme	ent? 🖁 yes	∏no	
pumping rate	<b>)</b>	elapsed tim	ne	
bail volume	<b>&gt;</b>	number of ba		
volume purged	1 10 gal	well volume	es 3.3/	
time purge complete	1030	well evacuated	?∐yes	no
SAMPLING DATA				
	pump	PVC bailer	poly bailer	teflon bailer
	stainless bucket	poly cup	tedlar bag	direct
	hand corer	hand auger	stainless spoon	_
	_		Julian News Special	split spoon
	other			split spoon
·	other	ent? ves		split spoon
·	ted sampling equipme	Ξ'	no	∐split spoon
dedica	ted sampling equipme metals field filter	Ξ'		∐split spoon
dedica depth of sample	ted sampling equipment metals field filter	Ξ'	no	∐split spoon
dedica	ted sampling equipment metals field filter	Ξ'	no	∐split spoon
dedica depth of sample sample containers	metals field filter	Ξ'	no	∐split spoon
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC	metals field filter  / / / / /  Sur C-C	Ξ'	no	∐split spoon
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?	metals field filter  //  blu C-C.  AL DATA  no yes	Ξ'	no	split spoon
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?	metals field filter  w/2  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Company  Machine Compan	Ξ'	no	∐split spoon
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?	metals field filter  metals field filter  lead to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t	red? yes	no no	
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?	metals field filter  metals field filter  includes the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	Ξ'	no	
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	metals field filter  metals field filter  Lack Coc.  AL DATA  no yes  no yes  no yes  clear turbid  other	WA	no no immiscible produ	ct
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	metals field filter  metals field filter  files / / 2   AL DATA  no yes  no yes  clear turbid  other  7.24 ten		no no immiscible produ	ct s) 10,500
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	metals field filter  metals field filter  in 12  subset Coc.  CAL DATA  no yes  no yes  clear turbid  other  7.24  turb		no no immiscible produ	ct s) 10,500
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?	metals field filter  metals field filter  files / / 2   AL DATA  no yes  no yes  clear turbid  other  7.24 ten	NA	no no immiscible produ	ct s) 10,500
dedica  depth of sample sample containers  PHYSICAL AND CHEMIC odor?  sediment?  color?  pH (SU) ORP (mV)	metals field filter  metals field filter  in 12  subset Coc.  CAL DATA  no yes  no yes  clear turbid  other  7.24  turb		no no immiscible produ	ct s) 10,500



sample II	<u> </u>	to the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the	sample date	e/time <i>5   15   96</i>	1220
(lab) sample numbe	er NEL =	035	field pers	connel SI GA R	B, BM
projec		suc oul		1	
project number				server	
weather condition	S(estimate wind,	cloud, precip, h		·C	
		lear le	00, 40-66		
SAMPLE TYPE	composite		grab		
·	groundwat	ter	surface water	soil	sediment
	leachate		ndustrial	storm sewer	gas
	other		_		
MONITORING WELL DA	4 <i>TA</i>				
casing diamete	- 1/		PVC	steel	other
static water leve	0 0	from	m well casing	from protective casing	3
bottom depti			=	from protective casing	
· ·			e steel tape	electronic	other
linear conversion				n well 5.70 god	L-J
well condition	good.		· · · · · · · · · · · · · · · · · · ·		
MONITORING WELL PL					
	submersibl	le pump	peristaltic pump	suction pump	PVC bailer
	poly bailer		teflon bailer	other	
de	edicated purg	e equipment	? <b>T</b> ves	∏no	
pumping ra			elapsed t	Ш	
bail volun			number of b		
volume purge	ed Ggal		well volum	mes / 05	
time purge comple	te 1035	<u>`</u>	well evacuate	ed? 🕻 yes	∏no
SAMPLING DATA	_		_		
	pump		PVC bailer	poly bailer	teflon bailer
	stainless bu	ucket	poly cup	tedlar bag	direct
	hand corer		hand auger	stainless spoon	split spoon
	other				
	ated sampling	equipment	? yes	no	
		field filtered		∏no	
depth of samp					
sample containe	rs sec coc				
PHYSICAL AND CHEMI					
odor?	<del></del>	yes			
sediment?	no	yes	NA		
color?	no	1 yes			
	clear	Tungid '	sheen	immiscible produ	uct
	other				
pH (SU)	6,90	temp	(C) \3.3	cond (umho	os) 13,900
ORP (mV)		turb (NT		PID (pp	•
comments / remarks					
	DUF	# 036			
				<u>`</u>	

Emcc	วก		•	r		
		FIELD SAN	APLING DAT	- ra sh	EET,	_
sa	mple ID_W8G		sample d	ate/tim	e_5/15/96	1450
(lab) sample		NEL	field pe	ersonn	SI GAR	B,BM /
		10c 0U1	<u>.</u>			
project		001.000		observe	er	
weather cor	nditions(estimate wind,	eloud, precip, hun	150 - 6	013	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
SAMPLE TYPE	composite		grab			
	<b>groundwa</b> t	er	surface water	[	soil	sediment
•	leachate	:	industrial	[	storm sewer	gas
	other					
MONITORING WE						
casing di			PVC	Į	steel	other
static wat	er level 10,10 f	from from	well casing	from	protective casing	
botton	n depth 20,50	from from	well casing	from	protective casing	_
	static water level i	ndicator type	_		electronic	other
linear con	version 164	<del></del> . 47	water volume			.4
		Ted v	u/ oily su	bstar	ice.	·
MONITORING WE	ELL PURGE DATA		-,		50.	
	∐ submersible		_iperistaltic pum	np 🖟	suction pump	PVC bailer
	∐poly bailer	. [	teflon bailer	Ĺ	other	
	dedicated purge	equipment?	yes		no	
	oing rate		elapse	_		· · · · · · · · · · · · · · · · · · ·
	l volume		number o	-	2 52 1	
	purged 4.0	ga-	well vo	=	2.53vols.	
time purge c	omplete	· · · · · · · · · · · · · · · · · · ·	well evacu	lated?		<b>@</b> no
SAMPLING DATA	pump		PVC bailer		poly bailer	teflon bailer
	∏stainless bu	L Latest	<del></del>	=		][
	=	cket [	poly cup	=	tedlar bag	direct
	∐hand corer	OASTS!	hand auger	1 -	stainless spoon	∐split spoon
	<b>M</b> other	120121	altic used	· ·	wse of New	1/2 011 above
	dedicated sampling	1	yes		no	•
مامسفاد ما		field filtered?	yes	L	no	
depth of sample co	· · · · · · · · · · · · · · · · · · ·	OC.				•
sample co	ritainers Sw	<del></del>				
PHYSICAL AND C	HEMICAL DATA					
	odor?∏no	yes				
	ment? ∏no	yes	WA		. Part I	
	color? <b>a</b> no	yes /	Brown oil	flo	ation on so	conducter.
`	clear	≌' / =	sheen	FI FI	immiscible produc	
	∬ other		y oncon	<b>14</b>		
	fill outer					

temp (C) 17. L turb (NTU)

nick

frot we li

pH (SU) ORP (mV)

comments / remarks

PID (ppm)

peristaltic pump	suction pump	PVC bailer
teflon bailer	other	
yes	no	
	e _	
number of bai	is	
well volume	es <u>3</u>	
well evacuated	? 🛮 yes	no
		_
PVC bailer	poly bailer	, teflon bailer
poly cup	tedlar bag	direct
hand auger	stainless spoon	split spoon
yes	no	
yes	no	
gre 9		
sheen	immiscible produ	ıct
		1 1
133	cond (umbo	os) 2500
· /	, , , , , , , , , , , , , , , , , , , ,	
100 # 02	5	
	· · · · · · · · · · · · · · · · · · ·	500434
	teflon bailer  yes elapsed tim number of bai well volume well evacuated  PVC bailer poly cup hand auger  yes yes yes sheen	teflon bailer other  yes no elapsed time number of bails well volumes well evacuated? yes  PVC bailer poly bailer poly cup tedlar bag hand auger stainless spoon  yes no yes no yes no yes pro yes no yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro yes pro



200001010	1100		C15/0/	1210
sample ID		sample date/ti		1210
(lab) sample number		tield person	inel SI GA RI	3 BM
project		_		
project number			ver	
weather conditions	(estimate wind, cloud, precip, hu	nidity, temp)		
	ilen ioc	1,50-6015		
SAMPLE TYPE	composite	grab		•
	groundwater	surface water	soil	sediment
	leachate	industrial	storm sewer	gas
	other			
MONITORING WELL DA				
MONITORING WELL DA casing diameter		PVC	steel	other
		<b>9</b>		
static water level		-	m protective casing	
bottom depth			n protective casing	Π.
	c water level indicator type	<u>.                                    </u>	electronic	other
linear conversion	· · · · · · · · · · · · · · · · · · ·	water volume in v	vell <u>5.99gal</u>	<u></u>
well condition				
MONITORING WELL PU	<b></b> ,	Π		П-и
	submersible pump	peristaltic pump	suction pump	∐PVC bailer
	poly bailer	teflon bailer	other	
dec	dicated purge equipment?	yes	no	
pumping rate		elapsed tim	e	
bail volume	e	number of bai	***************************************	<del></del>
volume purge	d	well volume		_
time purge complete	e	well evacuated	?∐yes	∐no
SAMPLING DATA				<b>A</b>
	pump	PVC bailer	poly bailer	teflon bailer
	stainless bucket	poly cup	tedlar bag	direct
	hand corer	hand auger	stainless spoon	split spoon
·	other	_	•	
_	ated sampling equipment?	ves	no	
acaise	metals field filtered?	-	∏no	
depth of sample		yes	Пио	
sample container				
•				
PHYSICAL AND CHEMIC	CAL DATA			
odor?				
sediment?	<u> </u>	NA		
color?		(1		
7	clear turbid	sheen	immiscible produc	·†
_	· ·	] sileeii	U www.iiacipie bloogic	
_	other (12)	1728	* *	17900
pH (SU)			cond (umhos	· ——
ORP (mV)	by turb (NTL	)) <u> </u>	PID (ppm	)
comments / remarks				
-				

EMCOR	EIEI D	SAMPLING DAT	A SHEET /	
				134
sample II		sample d		B BM
(lab) sample numbe		<del></del>	31, 6-17, R	$D_{+}UII$
projec				
project numbe			bbserver	
weather conditions	S(estimate wind, cloud, pred	sout, 5 www.	1,6015	
SAMPLE TYPE	composite	grab		
	groundwater	surface water	soil	sediment
•	leachate	☐industrial	storm sewer	gas
	other			
MONITORING WELL DA	$\sim$ $\sim$	<b>ed</b>	П.	
casing diamete		PVC	∐steel	other
static water leve	1 21.40	from well casing	from protective casing	
bottom depth	21.64	from <b>[]</b> well casing	from protective casing	
stat	ic water level indicator	rtype steel tape	electronic	other
linear conversion		water volume	e in well	
well condition				
MONITORING WELL PU	IRGE DATA			
	submersible pump	peristaltic pum	p suction pump	PVC bailer
	poly bailer	[] teflon bailer	other	
de	edicated purge equipn	<u> </u>	 ∏no	
pumping ra		elapse	U	
bail volum		number o		<del>1</del>
volume purge	ed 2,0 12	well vo	lumes 4.88	
time purge complet		well evacu	ated?  yes	no
SAMPLING DATA				
	pump	PVC bailer	poly bailer	tefion bailer
	stainless bucket	poly cup	∏tedlar bag	direct
	hand corer	hand auger	stainless spoon	split spoon
	<b>∀</b>	is tall fic	[] staittless spoot	□ shiit shoon
		<u> </u>		
dedic	ated sampling equipn	<b>T</b>	∐no	
	metals field filte	ered? yes	∐no	
depth of samp		-		
sample container	rs <u>See Coc.</u>			
PHYSICAL AND CHEMIC	<u>-</u> -			
odor?	no yes		· · · · · · · · · · · · · · · · · · ·	
sediment?	no yes	Tur.		
color?	no yes			
	clear Iturbic	sheen	immiscible produ	ct
	other		C	·
~U /OLA	——————————————————————————————————————	(0) 1147	and live be	N 810
pH (SU)	<del></del>	mp (C) 14,2	cond (umho	
ORP (mV)	re turb	(NTU)	PID (ppr	π)
omments / remarks				



	- 1 10 C	<del>}</del>		51. 151	1/100
sample II		<u> </u>		time 5/14/96	1400
(lab) sample numbe			_ field perso	nnel <u>SI,GA,R.</u>	B BM
projec		OC OUI	_		· · · · · · · · · · · · · · · · · · ·
project numbe				erver	
weather conditions	S(estimate wind, o	cloud, precip, hu	midity, temp)	Inte	
		~ pleas	sant, since	4,000	
SAMPLE TYPE	composite	í	grab	•	
	groundwate	er	surface water	soil	sediment
	leachate		industrial	storm sewer	gas
	other				`
MONITORING WELL DA	ITA				
casing diamete	r 2"		PVC	steel	other
static water leve	1 19.14	from	well casing fro	protective casing	
bottom depth	30.85	<del></del>	=	om protective casing	
stati	ic water Jevel i	ndicator type	steel tape	electronic	other
linear conversion		<u> </u>	water volume in	well 1.0 gal	<u></u>
well condition	good				
MONITORING WELL PL	IRGE DATA		_	<u></u>	
	submersible	e pump	peristaltic pump	suction pump	PVC bailer
	poly bailer		teflon bailer	other	
de	dicated purge	e equipment?	yes	no	
pumping rat			elapsed tir	me	
bail volum	ne		number of ba	ils	
volume purge		<del></del>	well volum	es 3-2/	
time purge complet	te <u> </u>	30	well evacuated	d?∏yes	no
SAMPLING DATA					
	pump		PVC bailer	poly bailer	teflon bailer
	_ ∏stainless bu	ıcket	poly cup	tedlar bag	direct
	hand corer		hand auger	stainless spoon	split spoon
	other		<b>U</b>		
1	്രാനല ated sampling		yes	no	
dealc		• •	7 ·	30	
depth of samp		field filtered?	<b>■</b> yes	∐no	
sample container	******		<u>.</u>		
= pro portigition					
PHYSICAL AND CHEMIC					
odor?	no	yes			
sediment?	no	yes	grey		
color?	no	्रि <b>yes</b>			
	clear	turbid	sheen	immiscible produ	ct
	other	<u> </u>	٠	<u>المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد</u>	
5U /CI N	_ ~ ~ ~	temp (0	0) 14.0	cond (umho	a cun
pH (SU) ORP (mV)		turb (NTU) turb (NTU)		PID (ppn	
comments / remarks	77/1	ium (1410	<u> </u>	rio (ppi	<u> </u>
Comments / Tethalks					

FIELD SA	MPLING DATA SH	HEET = /14 /96	1355
sample ID WIOG	sample date/tin		845/V700
(lab) sample number #066 NET	<del></del>	nel SI GAR	BBM
project Kin Buc OUI	<del>-</del>		
project number 1,2568, 001, 00	observ	rer	
weather conditions(estimate wind, cloud, precip, h	umidity, temp)		
elear, plea	Sunt, Sunn	y, tris	
SAMPLE TYPEcomposite	grab		П
groundwater	surface water	soil	∐sediment
leachate	industrial	storm sewer	gas
other			
monitoring well data casing diameter 2 u		П	
	PVC	∐steel	∐other
	9.	protective casing	
bottom depth 22.58 from	m well casing from	protective casing	
static water level indicator typ	e 🗌 steel tape	electronic	other
linear conversion .164	water volume in w	ell	.55 god
well condition good			
MONITORING WELL PURGE DATA	<b></b>	n	Π <b>ανα.</b> "
Usubmersible pump	peristaltic pump	suction pump	∐PVC bailer
∐poly bailer	☐teflon bailer	other	· · · · · · · · · · · · · · · · · · ·
dedicated purge equipment		no	
pumping rate	elapsed time		
bail volume	number of bails		
volume purged 2 qul.	well volumes		
time purge complete 1310 5/19/9	well evacuated?	∐yes	no
SAMPLING DATA	Davo ballar		teflon bailer
∐pump	∐PVC bailer	poly bailer	
∐stainless bucket	∐poly cup	∐tedlar bag	∐direct
hand corer	hand auger while	stainless spoon	split spoon
ather peri	whole he		
dedicated sampling equipment		∐no	
metals field filtered depth of sample シンプ・C	? yes	no	
	· ·		
sample containers			
DUVELCAL AND CUENCAL DATA			
PHYSICAL AND CHEMICAL DATA odor?∏no  ■yes			
	<b>R</b>		
sediment? no yes	Brown		
color? In yes		Π	
<b>T</b> clear [] turbid	Sheen	immiscible produ	ect
other `		·	300
pH (SU) 6.73 - temp	• • • • • • • • • • • • • • • • • • • •	cond (umho	
ORP (mV) turb (N1	[U)	PID (ppr	n)
comments / remarks	0.7 h.	,	
Strop led EV	er two days	· •	



FIELD SAMPLING DATA SHEET sample date/time sample ID #008 field personnel ST (lab) sample number UEL Kin Buc OUI project number 12568, 001, 000 observer weather conditions(estimate wind, cloud, precip, humidity, temp) grab SAMPLE TYPE composite groundwater surface water soil sediment leachate industrial storm sewer gas other MONITORING WELL DATA PVC steel other casing diameter from well casing from protective casing static water level 33.68 from well casing from protective casing bottom depth static water level indicator type steel tape electronic other linear conversion water volume in well <u>a 600 N</u> well condition MONITORING WELL PURGE DATA PVC bailer submersible pump peristaltic pump suction pump other poly bailer tefion bailer no dedicated purge equipment? yes pumping rate elapsed time bail volume number of bails 4gal well volumes volume purged well evacuated? Yes time purge complete SAMPLING DATA PVC bailer poly bailer teflon bailer pump tedlar bag direct stainless bucket poly cup split spoon hand corer hand auger stainless spoon other dedicated sampling equipment? yes no metals field filtered? yes no depth of sample sample containers PHYSICAL AND CHEMICAL DATA odor? no yes sediment? no yes color? no yes immiscible product sheen clear turbid other temp (C) cond (umhos) pH (SU) turb (NTU) PID (ppm) ORP (mV) 13. 4 comments / remarks



	7 - 4 4		//.///	1 1000
sample l	D GEI-36	sample da	ite/time <i>5   16   9</i>	6 1020
(lab) sample numb	er NEI # 04	field pe	rsonnel D. Bil.	the Single
proje	ct Kin Buc O	<u>u2</u>	B. welan	con, Gr Astolit
project numb	er 12 588 -00	1,000 o	bserver	<u> </u>
weather condition	S(estimate wind, cloud,	precip, humidity, temp)		
	rain	upl, bills	4,50'5	
SAMPLE TYPE	composite	grab		•
	groundwater	surface water	soil	sediment
	leachate	industrial	storm sewer	gas
	other			
MONITORING WELL D				
casing diameter	. 14	Prvc	steel	other
static water lev		from twell casing	from protective casi	
		= =	Ξ'	
bottom dept		from well casing	from protective casi	
		ator type ∐steel tape water volume	in well 5-69 49	Uother €
linear conversio well conditio		water voiume	iii weii <u> </u>	
MONITORING WELL P	<i>URGE DATA</i> ∏submersible pur	mp peristaltic pum	suction pump	PVC bailer
	5			U. VO Dallel
	∐poly bailer	teflon bailer	other	
Ь	edicated purge equ	in manual Viena	no	
	, , ,	-		
pumping re	ate	elapsed	l time	
pumping n bail volur	ate	elapsed number of	l time	
pumping n bail volur volume purg	ate ne ed 170 gr	elapsed number of well vol	I time bails umes 2.79	
pumping ra bail volur volume purg time purge compk	ate ne ed 170 gr	elapsed number of	I time bails umes 2.79	no
pumping n bail volur volume purg	atene	elapsed number of well void well evacua	I time bails umes 2.79 uted? yes	
pumping ra bail volur volume purg time purge compk	ate	elapsed number of well voluments	I time bails umes 2.79 uted? yes	atellon bailer
pumping ra bail volur volume purg time purge compk	ate_me_ed	elapsed number of well voluments well evacuated and poly cup	I time bails umes 2.79 ated? yes poly bailer tedlar bag	Steflon bailer
pumping ra bail volur volume purg time purge compk	pump  stainless bucket  hand corer	elapsed number of well voluments	I time bails umes 2.79 uted? yes	tefion bailer
pumping ra bail volur volume purg time purge compk	ate_me_ed	elapsed number of well voluments well evacuated and poly cup	I time bails umes 2.79 ated? yes poly bailer tedlar bag	Steflon bailer
pumping ra bail volur volume purg time purge compk SAMPLING DATA	pump stainless bucket hand corer other cated sampling equ	elapsed number of well volument?	I time bails umes 2.79 ated? yes poly bailer tedlar bag	Steflon bailer
pumping rabail volur volume purg time purge comple SAMPLING DATA	pump stainless bucket hand corer other cated sampling equ	elapsed number of well voluments well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and well evacuated and	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volur bail volur volume purg time purge compk SAMPLING DATA dedic depth of samp	pump stainless bucket hand corer other cated sampling equ metals field	elapsed number of well volument?	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volur volume purg time purge comple SAMPLING DATA	pump stainless bucket hand corer other cated sampling equ metals field	elapsed number of well volument?	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volur bail volur volume purg time purge comple SAMPLING DATA dedic depth of samp sample containe	pump Stainless bucket hand corer other cated sampling equ metals field ole ors  ywar (**)	elapsed number of well volument?	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volume bail volume volume purge time purge completime purge completime purge completime purge completime depth of sample contained physical and chemical pumping sample contained physical and chemical pumping sample contained physical and chemical pumping sample contained physical and chemical pumping sample contained physical and chemical pumping sample contained physical and chemical pumping rabatiles and chemical pumping rabatiles and contained pumping rabatiles and contained pumping rabatiles and contained pumping rabatiles and contained pumping rabatiles and contained pumping rabatiles and contained pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and chemical pumping rabatiles and che	pump  stainless bucket  hand corer  other cated sampling equ metals field ble  ors  ywar (**  ICAL DATA	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hipment? Eves filtered? Eves	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volume bail volume volume purge time purge comple SAMPLING DATA  dediction depth of sample contained sample contained physical AND CHEMICODOR?	pump  stainless bucket hand corer other cated sampling equ metals field ole ors  ywar (**  ICAL DATA	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hand auger filtered? Eyes	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volume bail volume purg time purge completime purge completime purge completime purge completime purge completime part of sample contained physical AND CHEMICOLOGY:  sediment?	pump stainless bucket hand corer other cated sampling equ metals field ole ors  CAL DATA Ino ye no ye	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hipment? Eves filtered? Eves	I time bails umes 2.79 uted? yes poly bailer tedlar bag stainless spoor	Steflon bailer
pumping rabail volume bail volume volume purge time purge comple SAMPLING DATA  dediction depth of sample contained sample contained physical AND CHEMICODOR?	pump  stainless bucket hand corer other cated sampling equ metals field ole ors  CCAL DATA no ye no ye no	elapsed number of well voice well evacual PVC bailer poly cup hand auger lipment? Eves filtered? Eves	I time bails umes 2.79 uted? yes  poly bailer tedlar bag stainless spoor	teflon bailer direct split spoon
pumping rabail volume bail volume purg time purge completime purge completime purge completime purge completime purge completime part of sample contained physical AND CHEMICOLOGY:  sediment?	pump  stainless bucket  hand corer  other cated sampling equ metals field ole ors  CCAL DATA  no ye no ye no ye	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hipment? Eves filtered? Eves	I time   bails     umes	efion bailer direct split spoon
pumping rabail volume bail volume purg time purge completime purge completime purge completime purge completime purge completime part of sample contained physical AND CHEMICOLOGY:  sediment?	pump  stainless bucket hand corer other cated sampling equ metals field ole ors  CCAL DATA no ye no ye no	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hand auger es ses NA	I time   bails     umes	teflon bailer direct split spoon
pumping rabail volume bail volume purg time purge completime purge completime purge completime purge completime purge completime part of sample contained physical AND CHEMICOLOGY:  sediment?	pump   stainless bucket   hand corer   other cated sampling equipmentals field   stainless   ywar (**   CAL DATA   no   ye   no   ye   clear   ture   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   clear   ture   ye   ye   ye   ye   ye   ye   ye	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hand auger sipment? Eves filtered? Eves Eves Eves Eves Eves Eves Eves Eves	I time   bails     umes	direct Split spoon
pumping rabail volume bail volume purge time purge completime purge completime purge completime purge completime part of sample contained physical and chemical color?	pump   stainless bucket   hand corer   other   cated sampling equ   metals field   ole   yes   clear   turn   other   cother   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hand auger es ses NA	I time   bails   umes	tefion bailer direct split spoon duct
pumping rabail volume bail volume volume purge time purge completed by the purge completed by the purge completed by the purge completed by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge complete by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge contained by the purge con	pump   stainless bucket   hand corer   other   cated sampling equ   metals field   ole   yes   clear   turn   other   cother   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other   other	elapsed number of well voluments well evacual PVC bailer poly cup hand auger hipment? The strict was seen with the strict sheet filtered? The strict sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet sheet s	I time   bails   umes	tefion bailer direct split spoon duct



sample ID WE-35	sample date/time 5/16/96 10/0
(lab) sample number_NET #042	field personnel D. Bilathe Singles
project Kin Buc 042	13-we Jancon Gr Astolite
project number 12 568 - 001,00	observer /
weather conditions(estimate wind, cloud, prec	
rain, u	ood, 6-cery, 50's
SAMPLE TYPE   composite	<b>√</b> grab
groundwater	surface water soil sediment
	∏industrial ∏storm sewer ∏gas
other	
MONITORING WELL DATA	
casing diameter 2 juch	₽PVC
static water level 13.61	from well casing from protective casing
bottom depth 25.38	from Well casing from protective casing
static water level indicator linear conversion $\theta$ / $\theta$	type   steel tape   detectronic   other water volume in well   left get
well condition	water volume in weii 17 or fr
MONITORING WELL PURGE DATA	
submersible pump	peristaltic pump suction pump PVC bailer
poly bailer	★teflon bailer ☐ other
dedicated purge equipm	
pumping ratebail volume	elapsed time number of bails
volume purged 6 33	well volumes 3.19
time purge complete	well evacuated? yes
SAMPLING DATA	
pump	PVC bailer poly bailer teflon bailer
stainless bucket	poly cup tedlar bag direct
hand corer	☐ hand auger ☐ stainless spoon ☐ split spoon
other	
dedicated sampling equipme	
metals field filter	red? Yes I no
depth of sample ~/6 sample containers 4 worker (	ty container set
sample containers 7000 ( Tr	1 walance see
PHYSICAL AND CHEMICAL DATA	
odor? no	
sediment? no yes	NA
☐clear	sheen immiscible product
other	17. 17. 1
	mp (C) 13. 2 cond (umhos) 1000
	(NTU)PID (ppm)
comments / remarks	



sample ID	WE-3R	sample date/ti	me 5/16/96	1035
(lab) sample number	NEI # 099	 field person	inel 12. Bila	he Singles
· ·	Kin Bue OUZ	·	B. we Janco	on, Gr Actolito
project number	12588-001,000	obser		
weather conditions	(estimate wind, cloud, precip, he			
	rain, cop	1, breezy	, 50'5	
SAMPLE TYPE	composite	grab		
, x	groundwater	surface water	soil	sediment
	leachate	industrial	storm sewer	∏gas
	other	Пичасына	Посотительный	_ 9
MONITORING WELL DA				
casing diameter	<b>-</b> • • • • • • • • • • • • • • • • • • •	∏PVC	Steel	other
static water level		모	n protective casing	
bottom depth		<b>=</b>	n ∏protective casing	
· •			Α'	other
linear conversion	water level indicator type	e ∐ stee⊨ tape water volume in w	Helectronic vell 5.23 gas R	
well condition	NK	water volume in w	ven 300 c	-
MONITORING WELL PUR	RGE DATA			
}	submersible pump	peristaltic pump	suction pump	PVC bailer
! =	poly bailer	Teflon bailer	other	U. Ve ballet
	J. •			· · · · · · · · · · · · · · · · · · ·
	dicated purge equipment?		∐no	
pumping rate bail volume	***************************************	elapsed tim_ number of bail		· · · · · · · · · · · · · · · · · · ·
volume purged		well volume		<del></del>
time purge complete		well evacuated?		√no
SAMPLING DATA		- Well Cladated	. [] ,00	<u> </u>
· -	pump	PVC bailer	poly bailer	teflon bailer
<u></u>	stainless bucket	poly cup	tedlar bag	direct
. [		Ξ΄	_	3
	∫hand corer	hand auger	stainless spoon	split spoon
	other	<u> </u>	В	
dedica	ted sampling equipment?		∐no	
	metals field filtered?	yes	∐no	
depth of sample	quarterly	container s	co+	
sample containers	9001 (17	Container 3	<i></i>	
PHYSICAL AND CHEMIC	PAL DATA			
odor?				•
sediment?		tan-	<u> </u>	
. <u>-</u>	2 2	1m-		
color?	=	Dahaari	Π::	-A
<u> </u>	clearturbid	sheen	immiscible produc	CI
	other	- 11.7		. 12 - 10
pH (SU)_		0) 14.3		s) 13500
ORP (mV)_	17.5 turb (NT)	J)	PID (ppn	າ)
comments / remarks				· · · · · · · · · · · · · · · · · · ·
_				



	<b></b>
sample date/time	e 5/16/96 1330
field personne	1 12. Bilabre Singles
	B-welancon, Gr Actolito
observe	
 numidity, temp)	
1, billy	50'5
Votab	
· <del>-</del> -	soil sediment
	= = = = = = = = = = = = = = = = = = = =
[] industrial	storm sewer gas
• F	<b>.</b>
F. F	steelother
well casing from	_ protective casing
m well casing from	protective casing
	electronic other
water volume in wel	11 3.65 gsl
	<i>U</i>
peristaltic pump	suction pump PVC bailer
teflon bailer	other
	no
	1110
<del></del>	1
well volumes	3.01
well evacuated?	
	<u> </u>
PVC bailer	poly bailer teflon bailer
	tedlar bag direct
<b>=</b> -	stainless spoon split spoon
I nama auger	] statiness shoot [] shirt shoot
	<u> </u>
= = = = = = = = = = = = = = = = = = = =	no
? Yes	Jno The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of th
-10 Line (1	0 <del>1</del>
Container 30	
P//	
NA	
	] immiscible product
	] immiscible product
sheen	immiscible product
sheen [	
sheen	cond (umhos) 3/c C
sheen [	cond (umhos) 3/c C
	observe  observe  numidity, temp)  (



sample ID	WE-55	sample date/	time <i>5   16   9-6</i>	1300
(lab) sample number	NEI # 049	field perso	onnel 12. Bila	he Singles
project	Kin Bue 042		B. we Jane	on, Gr Astolita
project number	12588-001,000	Obset	erver	
weather conditions	(estimate wind, cloud, precip,	humidity, temp)		
	rain, con	of, breezy	50'5	
SAMPLE TYPE	composite	grab		•
	groundwater	surface water	soil	sediment
•	leachate	industrial	storm sewer	gas
	other		Пототи	□9
MONITORING MELL DA				
MONITORING WELL DA casing diameter	~ (	RPVC	Steel	other
		₽ .	=	_
static water level			om   protective casing	
bottom depth	<del></del>	=	protective casing	
1	c water level indicator ty	· •	belectronic 1 2 2 2 2	other
linear conversion		water volume in	well 1.90 gul	<del> </del>
well condition				
MONITORING WELL PU	<b>~</b>	П.,:- <b> </b>	П <b>а</b> :	
	Usubmersible pump	∐ peristaltic pump	∬suction pump	PVC bailer
	poly bailer	teflon bailer	other	<u> </u>
de	dicated purge equipmer	nt? yes	∏no	
pumping rat		elapsed tir		<del></del>
bail volum		number of ba		
volume purge		well volum	, =	<b>√</b>
time purge complet	e	well evacuated	d?∐yes	Aluo
SAMPLING DATA	-	D-1.2. "	п	ا سراً
	pump	∐PVC bailer	∐poly bailer	Hteflon bailer
	stainless bucket	∐poly cup	tedlar bag	direct
	hand corer	hand auger	stainless spoon	split spoon
	other			
dedica	ated sampling equipmen	t? Sves	no	
	metals field filtered	d? Yes	no	
depth of sample	e			
sample container	s quarterly	container	set	
PHYSICAL AND CHEMIC				
odor?[	= ==			
sediment?	<u> </u>	NA		
color?	no yes			
	clear turbid	sheen	immiscible produ	ct
	other			
pH (SU)	6.59 temp	(C) 13.0	cond (umho	s) 8120
ORP (mV)			PID (ppr	
comments / remarks				
- -	DUP #05	U		
			· V	



sample ID WE-52	sample date/time	5/16/96	1320
(lab) sample number 1/FI # 05/	field personne		
project Vin But 0112		B. we Jancon	
project number 12 588 - 001,000	 observe		100000
weather conditions(estimate wind, cloud, precip, he	<del></del>		
rain, cor		50'5	
SAMPLE TYPE Composite	grab		
		7	Πdi
groundwater	= = = = = = = = = = = = = = = = = = = =	soil	sediment
∐ leachate	industrial	storm sewer	gas
other		-	
MONITORING WELL DATA		,	
casing diameter	∐PVC \}	steel	other
static water level 12.72 from	well casing from	protective casing	
bottom depth 49.11 from	well casing from	protective casing	
static water level indicator type	steel tape	electronic	other
linear conversion 0-/4	water volume in wel	5.66 gal	
well condition /	•		
MONITORING WELL PURGE DATA		<u> </u>	· · · · · · · · · · · · · · · · · · ·
submersible pump	peristaltic pump	suction pump	PVC bailer
poly bailer	Ateflon bailer	other	_
dedicated purge equipment?		no	
pumping rate	elapsed time	J 110	
bail volume	number of bails	•	<del>-</del>
volume purged 18 82	well volumes	3. <i>i</i> 8	<del>-</del>
time purge complete	well evacuated?		no
SAMPLING DATA		] ] ]	77
pump	PVC bailer	poly bailer	teflon bailer
stainless bucket		tedlar bag	direct
		-	= '
∐hand corer	hand auger	stainless spoon	split spoon
other	<u> </u>	1 .	
dedicated sampling equipment?		no	
metals field filtered?	yes	no	
depth of sample	container se	2 <u>+</u>	
sample containers ywar fer 19	Container se	- (	
DUNG (24)			
PHYSICAL AND CHEMICAL DATA			
odor? no	<b>b</b>		
sediment?∐no	ton		
color?'∐no ∐yes	<u></u>		
clear turbid	sheen	immiscible product	
other			
pH (SU) 6-42 temp (	C) 13.2	cond (umhos)	
	U)	PID (ppm)	Nontraction of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
comments / remarks			



sample ID_	EI-64	sample date/tim		1220
(lab) sample number_	NEI # 047	_ field personn		a Singles
project_	Kin Buc OUZ	· 	13. nec fancon	, Gr Autolita
project number_	12588-001,000	observ	er	
weather conditions(e	stimate wind, cloud, precip, hur			
	rain, upl	, breezy	50'5	
SAMPLE TYPE	composite	grab		
=	groundwater	surface water	soil	sediment
	leachate		storm sewer	1
1		∐ industrial	∐ storm sewer	∐gas
	other			<u> </u>
MONITORING WELL DATA	. / • 1	<b>i</b> D		п
casing diameter_		PVC		other
static water level		well casing from	protective casing	
bottom depth_	14.60 from	well casing from	protective casing	
static v	water level indicator type	steel tape	electronic	other
linear conversion	0.65	water volume in we	1 2-1490	
well condition_	DK	·		
MONITORING WELL PURE	GE DATA			
Π:	submersible pump	peristaltic pump	suction pump	PVC bailer
l ñ	poly bailer	tefion bailer	other	
pumping rate	cated purge equipment?	jyes elapsed time	_] no	
bail volume		number of bails		
volume purged	5 528	well volumes	234	_
time purge complete		well evacuated?		no
SAMPLING DATA			<u> </u>	
0	pump	PVC bailer	poly bailer	teflon bailer
Ξ.		= ;	= ' '	_
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	stainless bucket	] poly cup	_ tediar bag	direct
5	hand corer	hand auger	stainless spoon	split spoon
	other	4-		
dedicate	ed sampling equipment?	ves	no	
	metals field filtered?	Ves	no	
depth of sample_	~13			
sample containers	guarterly	container so	et	
	· · · · · · · · · · · · · · · · · · ·			
PHYSICAL AND CHEMICA		-		
odor? 📗 r	no <u>H</u> yes _			
sediment? [] r	no 🗍 yes	NA		
color?	no yes			
) C		sheen	immiscible product	
7.	other	L.	<u></u> .	
pH (SU)		) 11.9	cond (umhos)	7570
ORP (mV) -	turb (NTU		PID (ppm)	
comments / remarks	V 2 top (MIO	/	(in (bbiii)	
Comments / remains		· · · · · · · · · · · · · · · · · · ·		
	· · · · · · · · · · · · · · · · · · ·			
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			



sample ID_GEJ-63	sample date/time 5/16	196 [245
(lab) sample number WEL # 048	field personnel 12. 37	entre Singles
project Kin Buc OUT	- B.wel	rucon, Gr Astolitos
project number 12 568 - 001.0	observer	
weather conditions(estimate wind, cloud, pred		
rain, c	od, breezy 50's	
SAMPLE TYPE composite	grab	
groundwater	surface water soil	sediment
leachate		5
1 11	☐ industrial ☐ storm sewe	r ∐gas
U other		
MONITORING WELL DATA	<b>D</b>	
casing diameter 2 ind	₽VC ∐steel	other
static water level 20-11	from well casing from protective ca	asing
bottom depth 2 3.39	from well casing from protective ca	asing
static water level indicator	type steel tape	other
linear conversion 6.16	water volume in well 0.52	
well condition		
MONITORING WELL PURGE DATA		
submersible pump	peristaltic pump suction pum	p PVC bailer
poly bailer	Rteflon bailer ∏other	
dedicated purge equipm pumping rate		
bail volume	elapsed time number of bails	;
volume purged   inl	well volumes 7.92	
time purge complete	well evacuated? √yes	no
SAMPLING DATA	well evacuated: 15. yes	Пио
pump	PVC bailer poly bailer	teflon bailer
36	00	
∐stainless bucket	∐poly cup ∐tedlar bag	∐direct
∐hand corer	hand auger stainless spo	oon split spoon
other		
dedicated sampling equipm	ent? <mark>H√yes</mark> [] no	
metals field filte	ed? ∰es ☐no	
depth of sample ~22	- 1: : : : : : : : : : : : : : : : : : :	
sample containers ywar fer l	y container set	
V		
PHYSICAL AND CHEMICAL DATA		
odor?∐no ∑yes		,
sediment? 🗌 no 💮 yes	NA	
color?'⊠no []yes		·
∏clear ∏turbid	sheen immiscible p	roduct
other		
	np (C) 13 6 cond (u	mhos) (100
		(ppm)
comments / remarks		W 12.1.7



	sample ID	WE-612	sample d	ata Aima	5/16/96	12.15
	(lab) sample number		<del></del>	. ·		1 1 6
		Kin Buc OUZ	<del></del>	ersonnel		as Singles
	• • •	12 568 - 00100			3-we fance	the of Amor too
		(estimate wind, cloud, preci		observer	* .	
	Weather Conditions	rasimale wind, cloud, proc	op (, breez	4 50	16	
		7				
SA	MPLE TYPE	composite	grab	_		П
	Ŋ	groundwater	surface water	∐soi	i	sediment
	Į	leachate	industrial	sto	rm sewer	gas
		other				
MO	NITORING WELL DA	TA				
	casing diameter	2 inch	PVC	Ste	el	other
	static water level	1790	from well casing	from pro	tective casing	,
İ	bottom depth	46-53	from Well casing	from pro	tective casing	
	statio	water level indicator	type steel tape	Tele	ctronic	other
İ	linear conversion	0.16	water volume		4.58 gai	<b>.</b> :
	well condition	10 K	·			
MO	NITORING WELL PUI	RGE DATA				
		submersible pump	peristaltic pum	p suc	tion pump	PVC bailer
	Ī	poly bailer	teflon bailer	oth	er	
	_	licated purge equipme		∏no		
	pumping rate		elapse			
	bail volume		number c	***************************************	*	
	volume purged	1 14 3265	well vo		0.0€	······
	time purge complete		well evacu	ated? yes		no
SAM	MPLING DATA					
		pump	PVC bailer	pol	y bailer	tefion bailer
	Ī	stainless bucket	poly cup	☐ ted	lar bag	direct
	ſ	hand corer	hand auger	=	niess spoon	split spoon
		other	Unana aago.	[] •	оо ороог,	∏ ob m. ob o o m
	dodios	ted sampling equipme	m20100	Про		
	dedica			∐no		
	depth of sample	metals field filter		∐no		
	sample containers		y containe	v set	-	
		D	/			
PHY	SICAL AND CHEMIC	AL DATA				
	odor?					
	sediment?		Sien			
	color?	' <u>-</u>				
		clear sturbid	sheen	∏ imm	niscible produc	
	ו ח	other	- Careen	U "''''	HOUSE PROGUC	
	mH (01)		p(C) 13.7	<del></del>	oond /	10500
	pH (SU)_				cond (umhos	
Com	ORP (mV)_ ments / remarks	- 1 · 5 · ium (	NTU)		PID (ppm	/
			<u> </u>	<del></del>		
				·		
1						



sample ID WE-7	5	_ sample date/t	ime <i>5/16/96</i>	1143
(lab) sample number NEL #	045	_ field persor	inel 12. Bila	he singles
project Kin Buc	042	_	13. we fance	on, Gr. Autolitor
project number 12 578 -	-001,000	_ obser	ver	
weather conditions(estimate wind, c			1	
	n, copt	, breezy	, 50'5	
SAMPLE TYPE   composite	•	grab		
groundwate	r.	surface water	soil	sediment
∏ieachate		industrial	storm sewer	∏gas
		U in a de di la la	Ustoriii sewer	Гаса
other				
MONITORING WELL DATA		V miles	п	□ . <b></b>
casing diameter 2 inch		Mevc .	∐steel	other
static water level 14.95	<del></del>	=	m ∐ protective casing	
bottom depth 29-82	from	well casing from	$m \bigcup protective  casing$	<b>!</b> _
static water level in	ndicator type	steel tape	electronic	other
linear conversion 6-16	<del></del>	water volume in v	vell 2.36 gal	
well condition / K		•.		,
MONITORING WELL PURGE DATA				
submersible	pump	peristaltic pump	suction pump	PVC bailer
poly bailer	•	teflon bailer	other	_
J				
dedicated purge pumping rate	ednibments	rg yes elapsed tim	∐no	
bail volume		number of bai	<del></del>	<del></del>
volume purged & San	Ž.	well volume		
time purge complete		well evacuated		Mno.
SAMPLING DATA		-	· [] / · ·	:
pump		PVC bailer	poly bailer	₹tefion bailer
stainless bu	alrat	1	tedlar bag	direct
	CKEL	∐ poly cup		
∐hand corer		hand auger	stainless spoon	split spoon
∐ other				
dedicated sampling	equipment?	ves	∐no	
metals f	field filtered?	<b>Y</b> es	no	
depth of sample ~ とじ			1-	
sample containers 4 var	terly	container.	3et	
PHYSICAL AND CHEMICAL DATA				
odor? ☐ no	yes			
sediment? 🗌 no	yes	NA		
color? ₹no	yes			
	turbid	sheen	immiscible produ	ıct
other	<b>u</b>	<b>□</b>	ω (1.50a)	
	tomn //	0) 13,0	cond (umho	s) 500 C
pH (SU) ( - P)	-		PID (ppr	
ORP (mV) 5:0	turb (NTU		in (ppi	"'
comments / remarks				
		<u> </u>		
<u>{</u>			•	



sample ID WE- 7R	sample date/time	5/16/96	1135
(lab) sample number NEI # 044	field personnel		e Single
project Kin Bus OUZ		B-welanco	
project number 12 588 - 001,000	 observer		1
weather conditions(estimate wind, cloud, precip, he	-	**************************************	
rain, cop	(, billy	50'5	
SAMPLE TYPE   composite	grab		
groundwater	<u>~</u>	soil	sediment
		storm sewer	gas
		Storm Sewer	Пааз
other			
monitoring well data casing diameter Zinch	∏PVC 🏋	steel	other
			Other
	<b>=</b> = = = = = = = = = = = = = = = = = =	protective casing	
		protective casing	
static water level indicator type		electronic	other
linear conversion 6-/6 well condition 6	water volume in well	9.23 gal	
			<u> </u>
MONITORING WELL PURGE DATA	П		
Usubmersible pump		suction pump	PVC bailer
poly bailer	tefion bailer	other	
dedicated purge equipment?	<u> </u>	no	
pumping rate	elapsed time		
bail volume	number of bails_	202	
volume purged 28 gal	well volumes	3-03	vī /
time purge complete	well evacuated?	yes	no
SAMPLING DATA			; • • • • • • • • • • • • • • • • • • •
∐ <b>pum</b> p		•	tefion bailer
stainless bucket		tedlar bag	direct
∐ hand corer	hand auger	stainless spoon	split spoon
other			
dedicated sampling equipment?	<b>₩yes</b> []	no	
metals field filtered?	Nyes 📋	no	
depth of sample ~ 20	- //	1-	
sample containers 4 war fer 19	container se	<i>T</i>	
PHYSICAL AND CHEMICAL DATA			
odor?∀no ∐yes			
sediment? ∐no }yes	grey		
color? ☑ no ☐ yes	'		
☐clear <b>☐</b> turbid	sheen []i	mmiscible product	
other			
pH (SU) $\dot{b} \rightarrow \dot{f}$ temp (0	73.6	cond (umhos)	7100
ORP (mV) 15.8 turb (NTI		PID (ppm)	
comments / remarks			



sample ID	GEI-1067	sample date/tin	ne 5/15/96	1630
(lab) sample number	NEI # 041	field personr	nel /2 /3 , S	I
project	Vintue OU2	<del>-</del>	ON, B	m
project number	12568-001,000	 observ	/er	
	estimate wipd, cloud, precip, hu	midity, temp)		
_	Men coo	1,50-6015		
SAMPLE TYPE	composite	grab		
١	groundwater	surface water	Soil	sediment
	leachate	industrial	storm sewer	∏gas
<u> </u>	_	[] industrial	☐ storm sewer	∐ yas
L	other			
MONITORING WELL DAT	Youl	¥آمر.	П.	Π.,,
casing diameter_	<del></del>	¥frvc	∐steel	other
static water level_		= /	protective casing	
bottom depth_	13.78 from	well casing from	protective casing	
F	water level indicator type		<b>Relectronic</b>	other
linear conversion_	0.65	water volume in w	ell 8-64 gal	
well condition_	OK	•		<del></del>
MONITORING WELL PUR	RGE DATA		· · · · · · · · · · · · · · · · · · ·	
	submersible pump	peristaltic pump	suction pump	PVC bailer
	poly bailer	teflon bailer	other	
	licated purge equipment?	Vice	∏no	
pumping rate		elapsed time	L.J	
bail volume		_ number of bails		<del></del>
volume purged		well volumes		
time purge complete		well evacuated?		Ano
SAMPLING DATA				· • ·
	pump	PVC bailer	poly bailer	tefion bailer
	stainless bucket	poly cup	tedlar bag	direct
<u></u>	<b>1</b>	=	=	7
	hand corer	hand auger	stainless spoon	split spoon
	other	<u></u>		
dedica	ted sampling equipment?	=	∐no	
·	metals field filtered?		no	
depth of sample	~2'	container	set	
sample containers	girly telly	warner	sei	
	ι			
PHYSICAL AND CHEMIC				
odor?		111		
sediment?	,	NA		
color?	no Vyes	stack		
	clear Sturbid	sheen	immiscible produc	:t
	other			
pH (SU)		0) 13.9	cond (umhos	1500
ORP (mV)			PiD (ppm	
comments / remarks		·	u f	-



sample ID WE-105	sample date/time <u>5/15/96 1600</u>
(lab) sample number NET # 039	
project Umbue OUZ	
project number 1258 - 001,000	
weather conditions(estimate wind, cloud, precip, h	humidity, temp)
Ven Co	201,50-60'5
SAMPLE TYPE composite	grab
groundwater	surface water soil sediment
leachate	∏industrial ∏storm sewer ∏gas
other	
MONITORING WELL DATA	
casing diameter 2 ruch	PPVC steel other
	rom well casing from protective casing
	om well casing from protective casing
static water level indicator typ	
well condition	water volume in well 2 - 5 9 go
MONITORING WELL PURGE DATA	One windowie woman Constitution woman Constitution
submersible pump	☐ peristaltic pump ☐ suction pump ☐ PVC bailer
│ poly bailer	teflon bailerother
dedicated purge equipment	<u> </u>
pumping rate	elapsed time
bail volume	number of bails
volume purged 9 ml	well volumes 3, 97
time purge complete	well evacuated? yes
SAMPLING DATA	
∐pump	☐ PVC bailer ☐ poly bailer ☐ performance ☐ poly bailer
∐ stainless bucket	☐ poly cup ☐ tedlar bag ☐ direct
hand corer	hand auger stainless spoon split spoon
other	
dedicated sampling equipment	nt? yes no
metals field filtered	d? Neges ☐no
depth of sample $\sim 15$	
sample containers 4 Marterly	ioutainer set
PHYSICAL AND CHEMICAL DATA	
odor? █∕no ☐ yes	
sediment? 🗌 no 🔛 yes	brown
<u> </u>	
color? no yes	
	sheen   immiscible product
☐clear ☐turbid	sheen immiscible product
☐clear ☐turbid ☐other	
☐clear ☐turbid ☐other pH (SU) <u>7-6 /</u> temp (	(C) 17.6 cond (umhos) 14,570
☐ clear ☐ turbid ☐ other  pH (SU) 7-6 / temp ( ORP (mV) - 25.7 turb (NT	(C) 17.6 cond (umhos) 14,570
☐ clear ☐ turbid ☐ other  pH (SU) 7-6 / temp ( ORP (mV) - 25.7 turb (NT	(C) 17.6 cond (umhos) 14,570
☐clear ☐turbid ☐other pH (SU) <u>7-6 /</u> temp (	(C) 17.6 cond (umhos) 14,570



			<del></del>	
sample ID_	WE-1012	sample date/ti	<del></del>	1615
(lab) sample number	NEI # 040	field person		L
project	Vintue OU2	_		m
project number_		_ obser	ver	
weather conditions(	estimate wipd, cloud, precip, hu	midity, temp)		•
	Ven coo	1,50-6015		
SAMPLE TYPE	composite	grab		
1.5	groundwater	surface water	soil	sediment
Ī	leachate	industrial	storm sewer	gas
	other			
MONITORING WELL DAT	ΓA /		<del></del>	······································
casing diameter	Zinel	∏PVC	Steel	other
static water level	12.07 from	₩ /	protective casing	G
bottom depth		= -	protective casing	
· · · · ·	water level indicator type	- = -	Lefectronic	other
linear conversion	0.16	water volume in w	<u> </u>	-
well condition	OK			
MONITORING WELL PUR	RGF DATA			
	submersible pump	peristaltic pump	suction pump	PVC bailer
	poly bailer	teflon bailer	other	
	licated purge equipment?	Ξ	∏no	
pumping rate		elapsed time	<b></b>	
bail volume		number of bail		
volume purged	<del></del>	well volume		<del>*******</del>
time purge complete		well evacuated?		1 Ino
SAMPLING DATA				<u>ت</u>
	pump	PVC bailer	poly bailer	1efion bailer
	stainless bucket	poly cup	tedlar bag	direct
	hand corer	hand auger	stainless spoon	split spoon
	,	Unand adger	U statilless spoot	Парисароси
سا	other	0/.	Π	
dedica	ted sampling equipment?	Ξ'.	∐ no	
-tA1 &1-	metals field filtered?	<b>≱</b> yes	∐no	
depth of sample sample containers	11 19 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11	wutainer	set	
sample containers	- <del>1012 (E 19</del>	WW. Compet.	3	
PHYSICAL AND CHEMIC	AL DATA			
odor?				
sediment?	<del>, =</del> .	It. grey		
color?	<u> </u>			
	clear sturbid	sheen	immiscible produc	
	other _	<del></del>	produc	- <del>-</del>
 p <b>H (SU)</b>		0) 16.0	cond (umbas	14900
' ' '			PID (ppm	
ORP (mV)_	- LOVE TURD (INTO	٠١ <u></u>	i in (hbii	' <u>'</u>
comments / remarks				<u> </u>
<del>-</del>				



comments / remarks

FIELD SAMPLING DATA SHEET sample ID WE-1140 sample date/time (lab) sample number NEI # 097 field personnel project Kin Bul OUZ project number 12 588 - 001,000 observer weather conditions(estimate wind, cloud, precip, humidity, temp) rain upl, breezy SAMPLE TYPE composite grab groundwater surface water soil sediment leachate industrial storm sewer gas other MONITORING WELL DATA t inch PVC Steel other casing diameter static water level from well casing from protective casing bottom depth from | well casing from | protective casing static water level indicator type steel tape electronic other water volume in well 32/2 jul linear conversion well condition MONITORING WELL PURGE DATA Submersible pump PVC bailer peristaltic pump suction pump poly bailer teflon bailer other dedicated purge equipment? Tyes pumping rate elapsed time bail volume number of bails volume purged well volumes well evacuated? ves time purge complete SAMPLING DATA pump **PVC** bailer poly bailer tefion bailer stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon other dedicated sampling equipment? Wes metals field filtered? Wes depth of sample quarterly container set sample containers PHYSICAL AND CHEMICAL DATA Vyes odor? no yes sediment? no color? no clear immiscible product other temp (C) 12.9 610 pH (SU) しょうど cond (umhos) turb (NTU) ORP (mV) //:/ PID (ppm)

£ 675

1435



comments / remarks

FIELD SAMPLING DATA SHEET sample ID sample date/time NEI # 030 (lab) sample number field personnel Un Bue OUN project 125/18-001.000 project number observer weather conditions (estimate wind, cloud, precip, humidity, temp) SAMPLE TYPE composite grab groundwater soil sediment **U**surface water leachate industrial storm sewer gas other MONITORING WELL DATA PVC casing diameter steel other static water level from | well casing from protective casing bottom depth from | well casing from | protective casing static water level indicator type steel tape electronic other linear conversion water volume in well well condition MONITORING WELL PURGE DATA 1// peristaltic pump PVC bailer submersible pump suction pump poly bailer teflon bailer other dedicated purge equipment? | yes pumping rate elapsed time bail volume number of bails volume purged well volumes well evacuated? yes no time purge complete SAMPLING DATA **PVC** bailer pump poly bailer teflon bailer stainless bucket poly cup tedlar bag direct hand corer hand auger stainless spoon split spoon other dedicated sampling equipment? yes no metals field filtered? ves SIM FAY depth of sample sample containers PHYSICAL AND CHEMICAL DATA bradetsh odor? no # yes ves sediment? no color? I no immiscible product sheen clear other PH (SU) & C9 16.8 temp (C) cond (umhos) ORP (mV) - 79.3 turb (NTU) PID (ppm)

ride



FIELD SAMPLING DATA SHEET RR-02 sample ID sample date/time NEI # 031 (lab) sample number field personnel Un Bue OUV project 12568-001.000 project number observer weather conditions (estimate wind, cloud, precip, humidity, temp)

Cloud, 10-60's SAMPLE TYPE composite sediment soil groundwater **U**surface water leachate industrial storm sewer gas other MONITORING WELL DATA PVC casing diameter steel other static water level from | well casing from protective casing from | well casing bottom depth from | protective casing static water level indicator type | steel tape electronic other linear conversion water volume in well well condition MONITORING WELL PURGE DATA 1// submersible pump peristaltic pump suction pump PVC bailer Tteflon bailer poly bailer dedicated purge equipment? yes no pumping rate elapsed time bail volume number of bails volume purged well volumes well evacuated? yes time purge complete SAMPLING DATA PVC bailer pump poly bailer teflon bailer **direct** stainless bucket poly cup tedlar bag hand corer hand auger stainless spoon split spoon other dedicated sampling equipment? yes no metals field filtered? ves depth of sample Surfa C
ample containers | warterty wutainer cet sample containers PHYSICAL AND CHEMICAL DATA bradish yes odor? no sediment? no color? Ino immiscible product clear other pH (SU) 8, 44 temp (C) 16-7 cond (umhos) ORP (mV) -71. 9 turb (NTU) PID (ppm) comments / remarks



FIELD SAMPLING DATA SHEET RR-03 sample date/time sample ID NET # 032 (lab) sample number field personnel Win Bue OUV project 12568-001.000 project number observer weather conditions (estimate wind, cloud, precip, humidity, temp) SAMPLE TYPE composite grab sediment groundwater surface water leachate industrial gas storm sewer other MONITORING WELL DATA other PVC casing diameter steel static water level from | well casing from | protective casing from | well casing from protective casing bottom depth static water level indicator type steel tape other electronic linear conversion water volume in well well condition MONITORING WELL PURGE DATA 1/1 PVC bailer peristaltic pump submersible pump suction pump ☐ teflon bailer poly bailer other dedicated purge equipment? I ves Ino pumping rate elapsed time number of bails bail volume volume purged well volumes well evacuated? yes time purge complete no SAMPLING DATA PVC bailer poly bailer teflon bailer pump stainless bucket tedlar bag direct poly cup hand auger stainless spoon split spoon hand corer other dedicated sampling equipment? yes no metals field filtered? yes **U**no depth of sample Sur Fr & contained cat sample containers PHYSICAL AND CHEMICAL DATA boselish **4** yes odor? no sediment? \( \int \no yes color? Ino immiscible product clear sheen other temp (C) 17.5 pH (SU) 7.96 cond (umhos) ORP (mV) - 67, turb (NTU) PID (ppm) comments / remarks



	FIELD SA	MPLING DATA	- 11	
sample ID	12-04	sample date	· ————————————————————————————————————	
(lab) sample number	EI # 033			
1 -	an Bue OUr		6A, BH	Λ
project number /2	568-001.000		server	
weather conditions(estimate	e wind, cloud, precip, h	umidity, temp)	D C	
	_ con	100 C, 10 0	<u> </u>	
SAMPLE TYPE com	posite	grab		
`	ndwater	<b>U</b> surface water	soil	sediment
[ leac	nate	∏industrial	storm sewer	gas
othe	r		_	
MONITORING WELL DATA ,	. 4			····
casing diameter	<i>IA</i>	∏PVC	steel	other
static water level	fro	m ∏well casing f	rom ∏protective casing	J
bottom depth		=	rom protective casing	
[	level indicator typ	5	electronic	other
linear conversion	ever mulcator typ	e ∐ steer tape water volume ir	_	Попієї
well condition		water volume in		<del></del>
MONITORING WE! L PURGE L	DATA U/A			
	nersible pump	peristaltic pump	suction pump	PVC bailer
poly	• •	teflon bailer	other	U. VO Banci
		0		
	I purge equipment		∐no	
pumping rate bail volume		elapsed ti		
volume purged		number of b well volun		
time purge complete		well evacuate		∏no
SAMPLING DATA			.d. [] )c3	
pumi	•	PVC bailer	poly bailer	∏teflon bailer
<u> </u>	ess bucket	poly cup	tedlar bag	=
		= -		direct
	corer	hand auger	stainless spoon	split spoon
other		r\$n		
	mpling equipment	<u> </u>	∐no	
	netals field filtered	?∐yes	<b>⊌</b> no	
· · · · · · · · · · · · · · · · · · ·	u for G	i wouldine	and the	
sample containers	y war ler ly	www.we		
PHYSICAL AND CHEMICAL DA	l <i>TA</i> Øyes	bradish		
odor? ∐no	<b>—</b>	111 -	-	
sediment? ∐no	∐yes	NA		
color? 💋 no	yes unt		· ·	
clear	Mtúrióid '	sheen	immiscible produc	at .
other				
рН (SU) <u>7. 9</u> 3	temp (	c) <u> </u>	cond (umhos	) 230
ORP (mV) -66.	ク turb (NT		PID (ppm	
comments / remarks		<u> </u>		
<u>at</u>	low too	4		

# APPENDIX C OU1 FIELD QA/QC RESULTS

# Appendix C Kin-Buc Landfill Operable Unit 1 Duplicates Sample Comparison

Parameters	W-4S	DUP (4S)	W-7R	<b>DUP (7R)</b>
Dissolved Metals (ug/l)				
Copper	65.2	<1.3	<1.3	<1.3
Iron	76300	82500	16400	15600
Lead	<1.5		<1.5	<1.5
Sodium	1350000	1300000	3180000	2890000
Zinc	115	233	127	30.8
General Chemistry (mg/l)				
pH, SU	6.55	N/A	6.95	N/A
Color, Pt-Co	2500	1500	200	300
Fecal Coliforms, colonies/100ml	<1.0	<1.0	N/A	N/A
Fecal Strep, colonies/100ml	<1.0	<1.0	N/A	N/A
Total Coliforms, colonies/100ml	<1.0	<1.0	N/A	N/A
Ammonia, Nitrogen	33.9	32.7	6.76	6.63
Biochemical Oxygen Demand	41.7	41.3	7.3	7.3
Chemical Oxygen Demand	611	647	324	333
Chloride	2600	620	4700	4310
Nitrate	<0.04	<0.04	0.13	0.11
Phenol	0.072	0.072	<0.0035	<0.0035
Sulfate	750	773	490	472
Surfactants	0.81	0.83	0.23	0.38
Total Dissolved Solids	176	174	10300	9670
Total Organic Carbon	147	150	21.7	21.9

# Appendix C Kin-Buc Landfill Operable Unit 1 Field QA/QC Samples

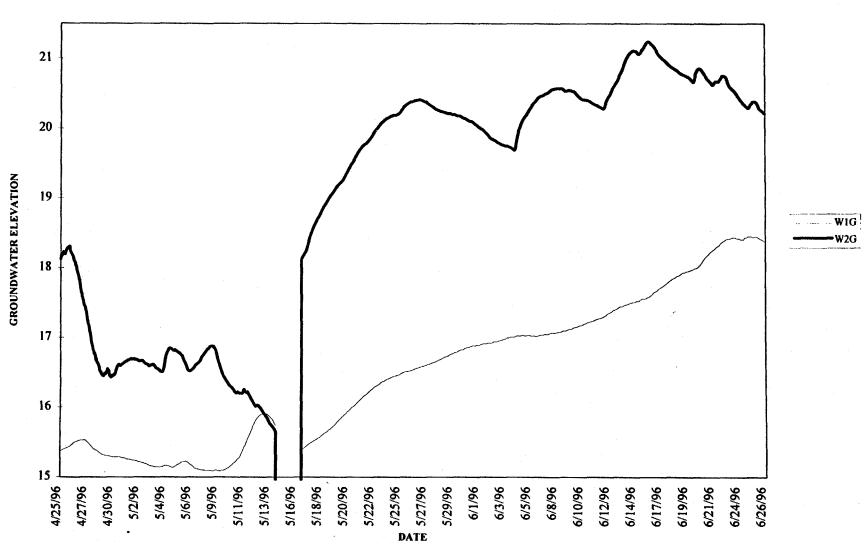
Parameters	FB-01	FB-02
Dissolved Metals (ug/l)		
Copper	1.3	<1.3
Iron	10.8	16.5
Lead	1.5	<1.5
Sodium	511	4120
Zinc	17.5	2.1
General Chemistry (mg/l)		
pH, SU .		
Color, Pt-Co	10 U	40
Fecal Coliforms, colonies/100ml	<1.0	N/A
Fecal Strep, colonies/100ml	<1.0	N/A
Total Coliforms, colonies/100ml	<1.0	N/A
Ammonia, Nitrogen	<0.05	<0.05
Biochemical Oxygen Demand	<3.0	<3.0
Chemical Oxygen Demand	<3.0	<3.0
Chloride	1.0 U	<1.0
Nitrate	0.11	0.20
Phenol	0.018	<0.0035
Sulfate	<3.0	<3.0
Surfactants	<0.05	<0.05
Total Dissolved Solids	10 U	430
Total Organic Carbon	<1.0	<1.0

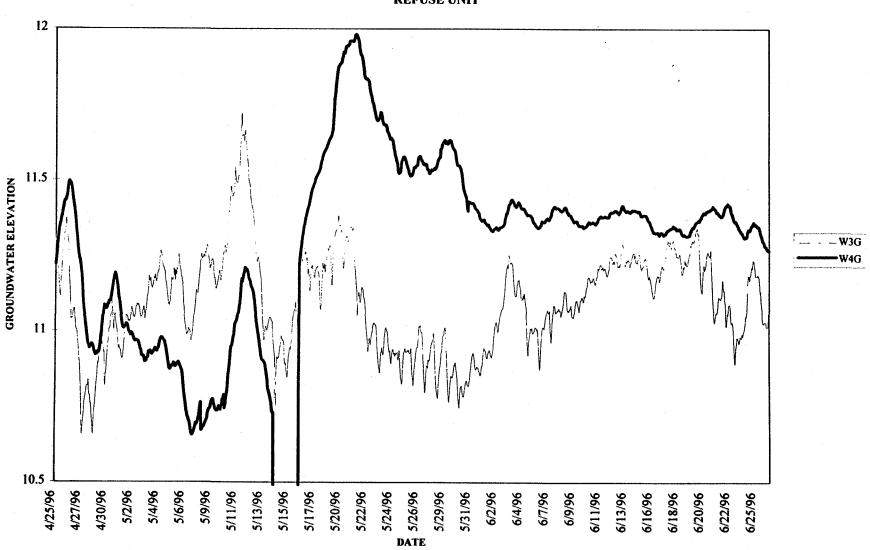
## APPENDIX D OU2 FIELD QA/QC RESULTS

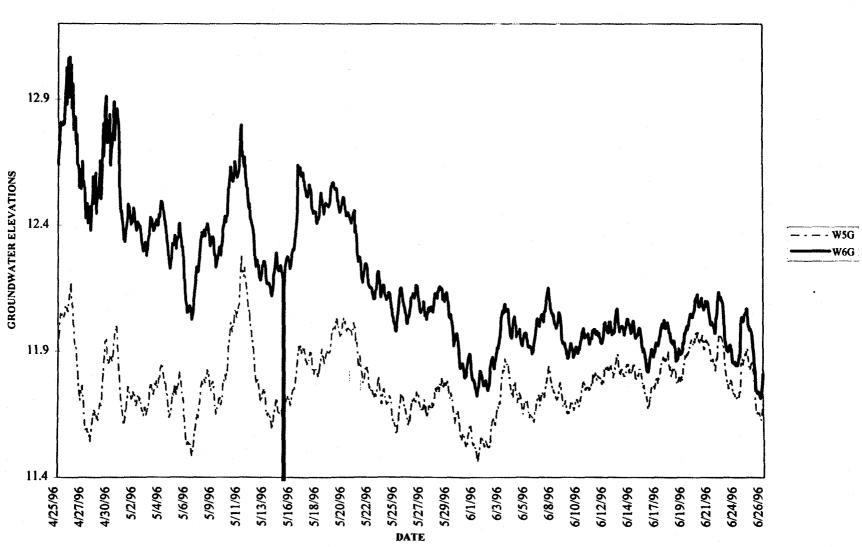
## Appendix D Kin-Buc Landfill Operable Unit 2 Duplicate and Field QA/QC Samples

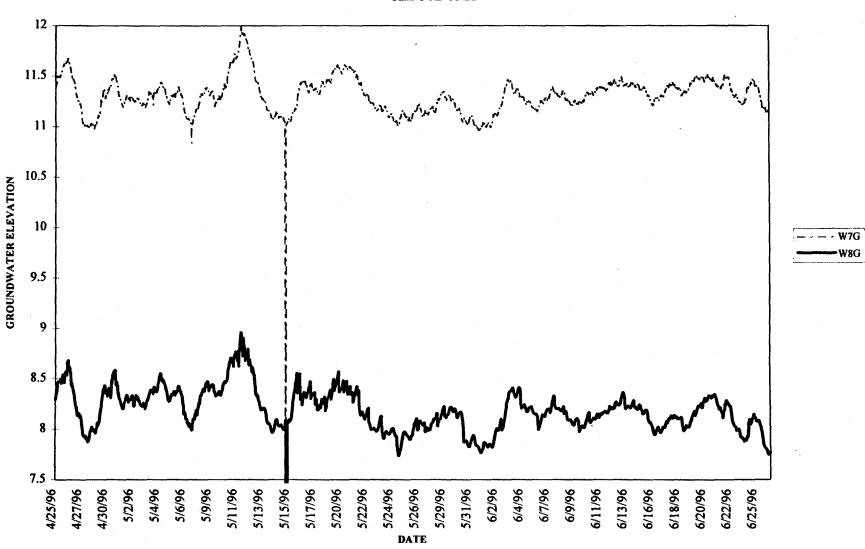
Parameters	WE-5S	<b>DUP (5S)</b>	FB-03
Dissolved Metals (ug/l)			
Copper	6.4	5	4.1
Iron	70700	68200	80.2
Lead	<1.5	<1.5	2.2
Sodium	1790000	1870000	1800
Zinc	36.7	141	37.1
General Chemistry (mg/l)			
pH, SU	6.57	N/A	N/A
Color, Pt-Co	1500	1500	40
Fecal Coliforms, colonies/100ml	8000	<1.0	<1.0
Fecal Strep, colonies/100ml	<1.0	<1.0	<1.0
Total Coliforms, colonies/100ml	N/A	<1.0	<1.0
Ammonia, Nitrogen	9.42	7.69	<0.05
Biochemical Oxygen Demand	20.7	18.7	<3.0
Chemical Oxygen Demand	433	488	<3.0
Chloride	2100	2140	<1.0
Nitrate	<0.04	0.04	0.04
Phenol	<0.0035	<0.0035	< 0.0035
Sulfate	171	171	<3.0
Surfactants	0.51	0.49	<0.05
Total Dissolved Solids	5881	6120	47
Total Organic Carbon	128	126	<1.0

# APPENDIX E OU1 REFUSE WELLS CONTINUOUS WATER LEVEL MONITORING HYDROGRAPHS

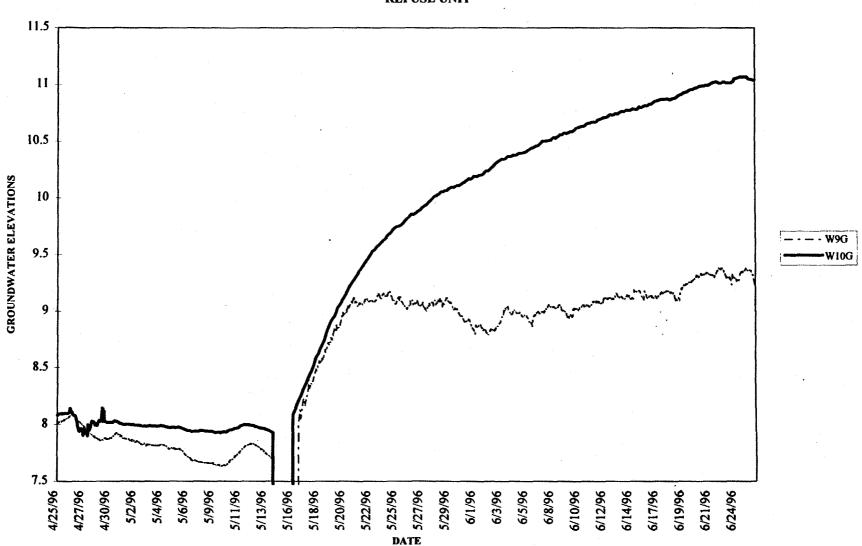




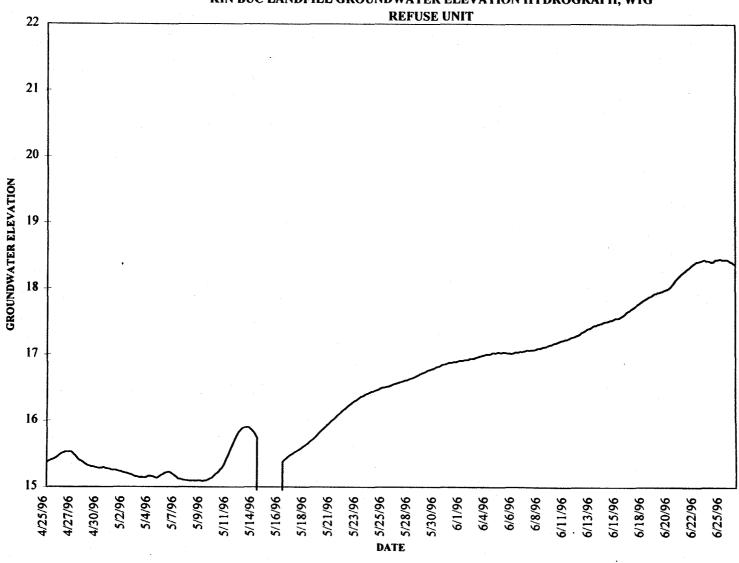


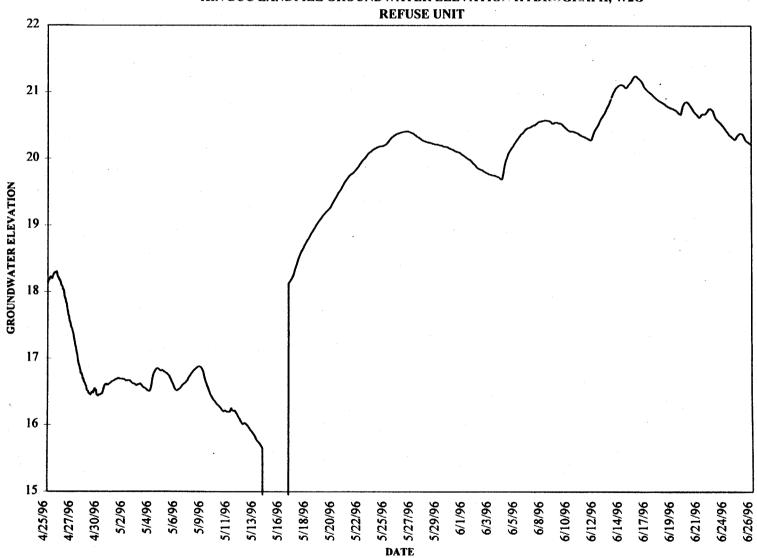


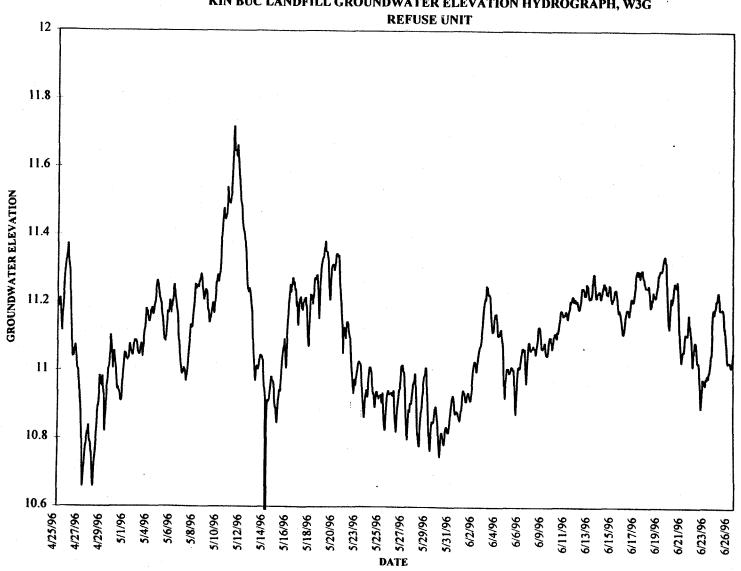
500471



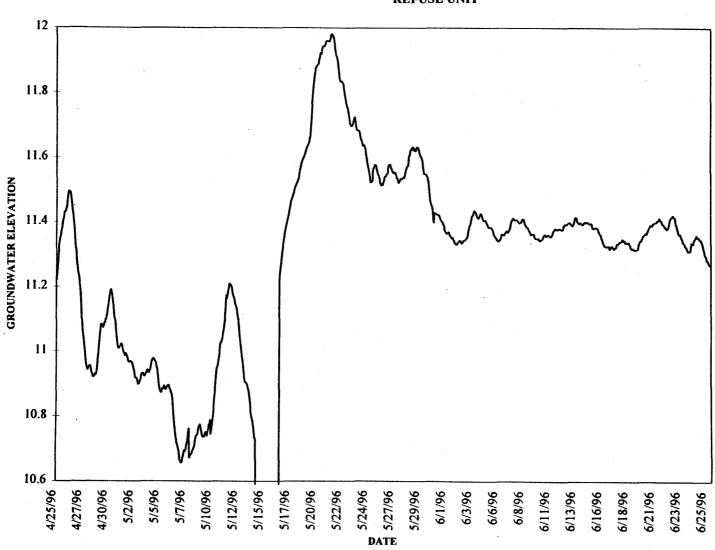
#### APPENDIX F OU1 WELLS CONTINUOUS WATER LEVEL MONITORING HYDROGRAPHS

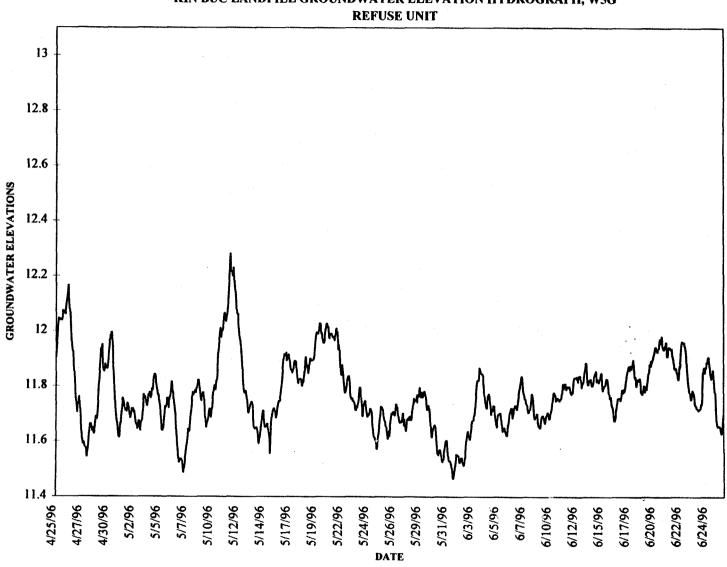


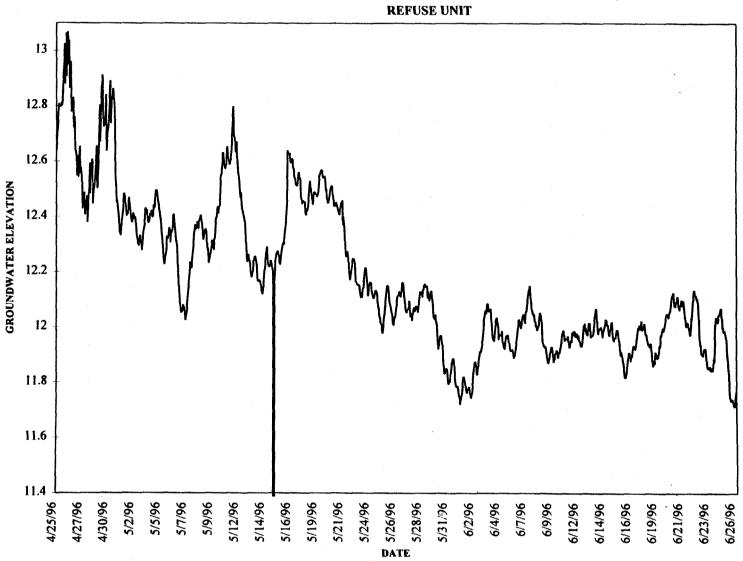




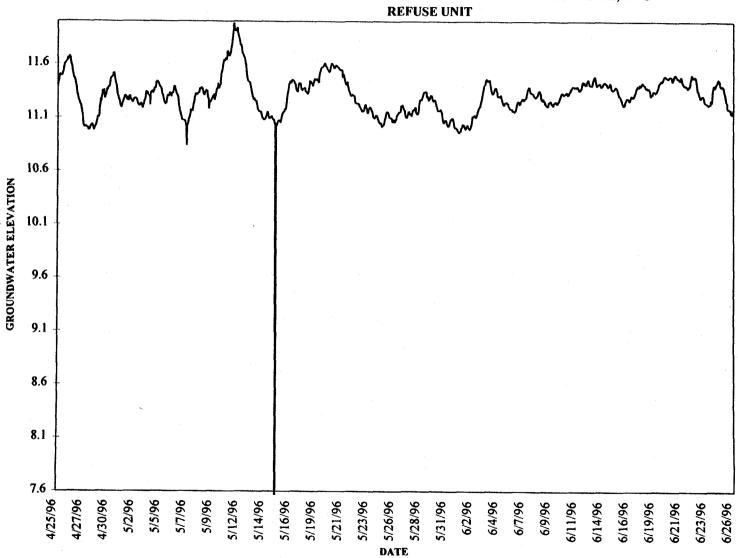
#### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W4G REFUSE UNIT

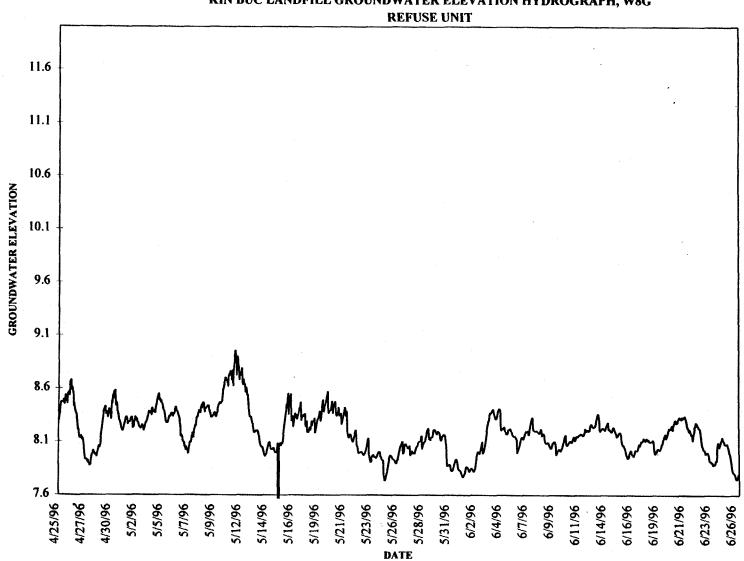




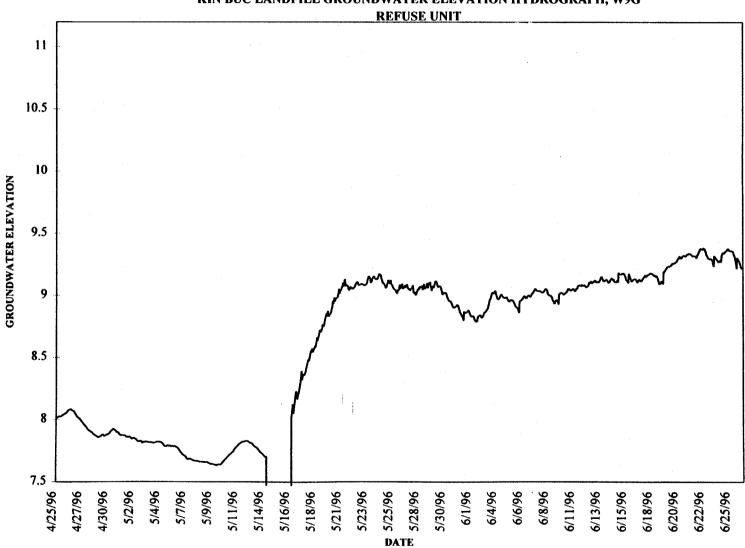


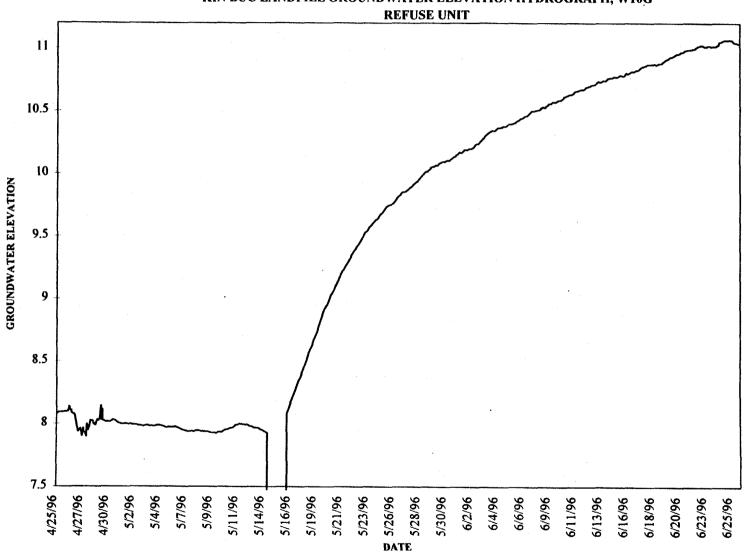
### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W7G





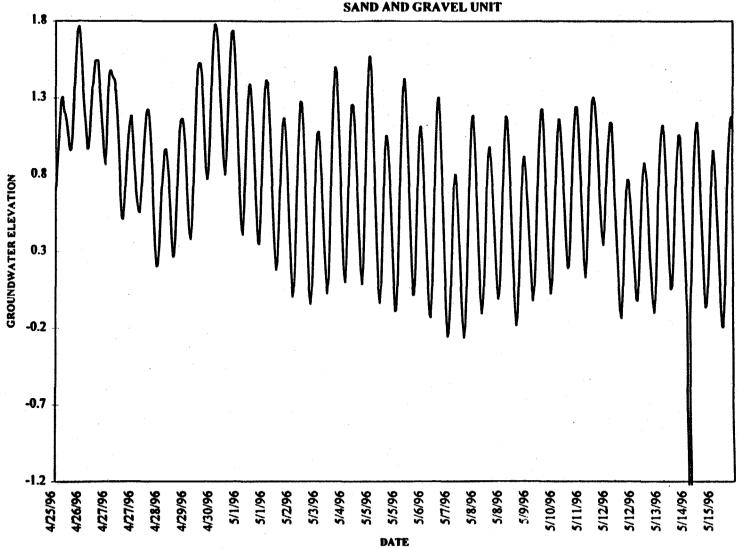
#### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W9G



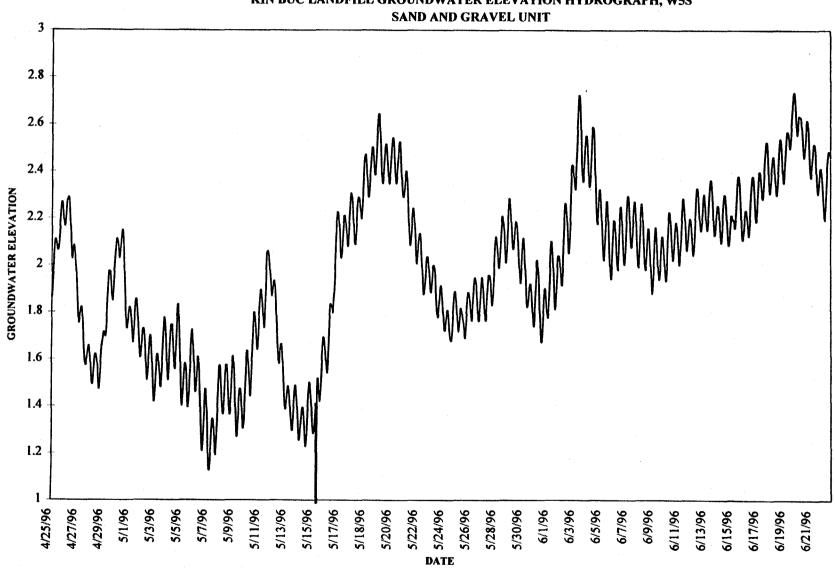


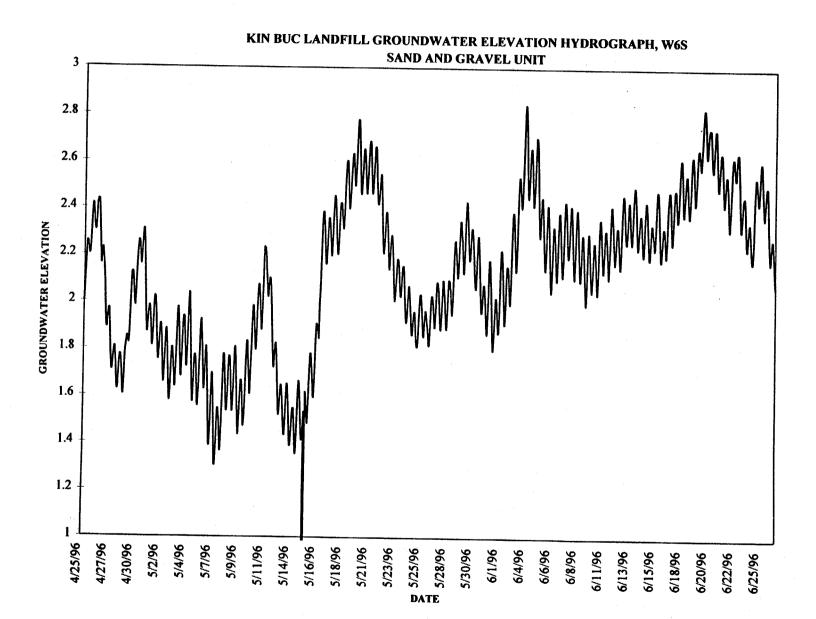
#### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W3S



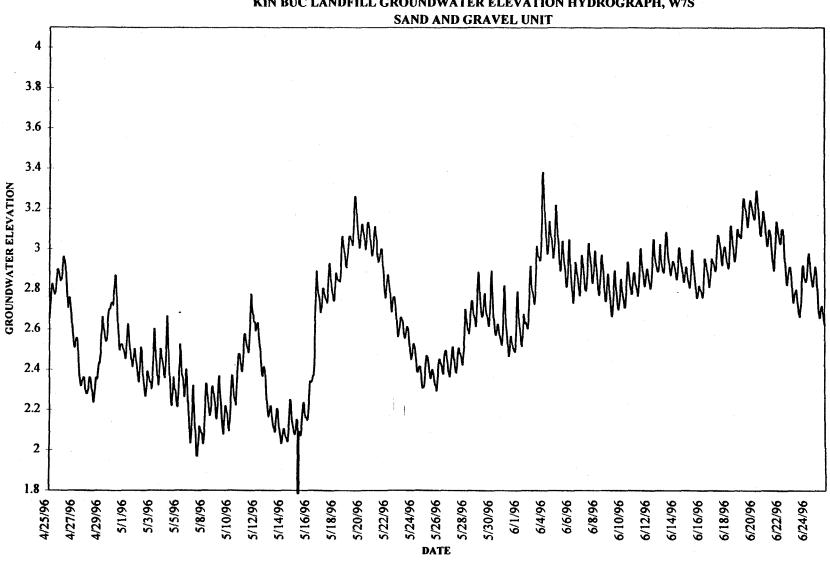


#### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W5S

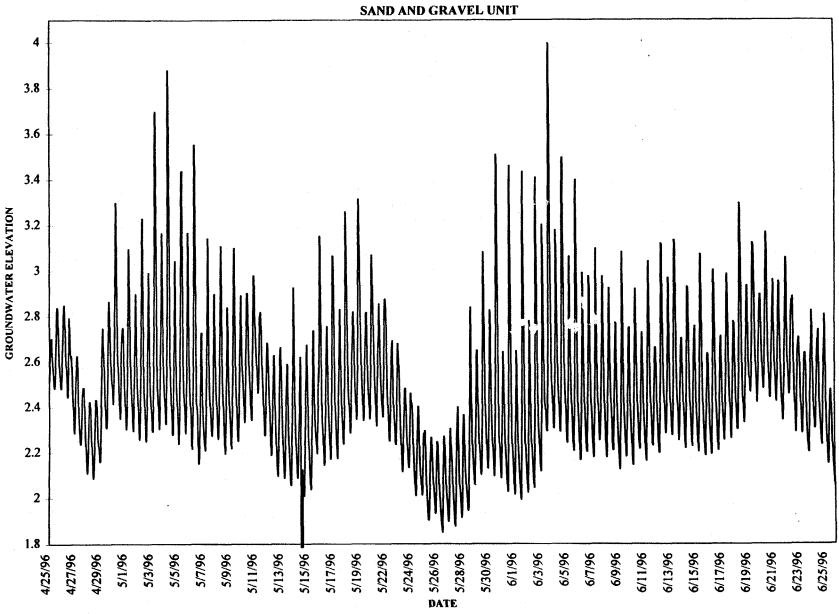




#### KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W7S



## KIN BUC LANDFILL GROUNDWATER ELEVATION HYDROGRAPH, W8S



#### **APPENDIX G**

## WETLANDS RESTORATION MONITORING PROGRESS REPORT

**KIN-BUC LANDFILL** 

**OPERABLE UNIT 2** 

#### **CONTENTS**

1 INTRODUCTION AND GOALS
2 RESTORATION PLAN SPECIFICATIONS
3 MONITORING METHODS
3.1 Transect Plot Sampling
3.2 Fixed Point Photographs/General Observations
3.3 Tidal Gauging
4 MONITORING RESULTS
5 CONCLUSIONS
TABLE
DRAWING
ATTACHMENT G-1 PLOT SAMPLING DATA SHEETS

ATTACHMENT G-2 SITE PHOTOGRAPHS

ATTACHMENT G-3 FIELD MEMO

1-1

2-1

3-1 3-1 3-1 3-2

4-1

5-1

#### 1 INTRODUCTION AND GOALS

In July 1996, EMCON conducted wetland monitoring activities for the wetland restoration program at the Kin-Buc Landfill, Operable Unit 2 (OU2/Edmonds Creek Marsh Area) as set forth in the Wetland Restoration and Maintenance (R/M) Plan for the site. Monitoring activities are intended to fulfill the requirements of Appendix C - Wetlands Monitoring, of the Kin-Buc Landfill Superfund Site Operations and Maintenance Manual (Wheelabrator EOS, 1995).

The Restoration Plan required the planting of cordgrass (<u>Spartina alterniflora</u>) in excavated Zones 1 through 5 of OU2 ECMA in an attempt to restore the affected wetland community to pre-remedial action conditions. The ultimate goal of the restoration program is to achieve 80 percent vegetative cover over the next 5 years. As presented in the following report, replanting with cordgrass has not been successful.

This report presents the findings of the wetland monitoring activities for the first half of 1996. Attachment G-1 includes the plot sampling data sheets, and Attachment G-2 presents the fixed point photographs that document site conditions. Attachment G-3 presents a list of wildlife and plant species found at the site. Drawing No. 2 shows the location of the transects where plot sampling was conducted and the fixed point photograph locations.

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#### **2 RESTORATION PLAN SPECIFICATIONS**

The restoration plan specifications were developed to enhance the establishment of marsh plant communities as quickly as possible, which reflected the original marsh plant community prior to the invasion of phragmites. Monitoring was originally intended to primarily document the re-establishment of cordgrass, but has been modified to document the percent vegetative cover of all species in the sample plots. Monitoring actions are limited to the observance of the planted areas of cordgrass and the establishment of other opportunistic species in these areas.

The persistence of the planted wetland areas does not depend upon a consistency of wetland community species composition as initially established on the site. Rather, marshes are among the most dynamic of landscape features and their plant community assemblages reflect such temporal change. Subsequently, the species composition of the planted areas will be variable. The influence of climatic variation, the natural colonization by native plants, and the natural development of site wetland hydrology and nutrient regimes, will lead to a wetland that differs in anticipated plant composition. Maintenance and management of the site is directed toward establishing a natural wetland community over time.

Maintenance of the restoration area vegetation is heavily restricted in the long term without a marsh-wide program to control common reed. Maintenance efforts will be limited to supplemental plantings.

#### 3.1 Transect Plot Sampling

Monitoring inspections of the restoration areas are to be performed two times a year during the first three years, and annually for the fourth and fifth years after completion of restoration. A transect plot method of sampling is being used to assess total percent vegetative cover. Vegetative cover results are provided in Table G-1. The transect extends from shore to shore perpendicular to water flow. Some repositioning of transect plots was required and is indicated in Table G-1. Permanent transects were previously established at the site by the use of iron bars. Three replicate transects per excavation zone were designated. At each location, three, 1 meter square plots were established along the bank gradient. This monitoring technique allows for direct comparisons of vegetation along elevation gradients. The plot sampling data sheets are provided as Attachment G-1. Three transects with replicate plots along the elevation gradient will supply enough data to develop a statistical comparison. All species observed in the plot will be monitored for a period of 5 years.

#### 3.2 Fixed Point Photographs/General Observations

Fixed photograph location points were established upstream and downstream of each zone and at each transect. The photographs are provided as Attachment G-2. Photographs will be taken from the same point, and in the same direction during every monitoring period. Additional random points were selected upon completion of the restoration such that location and number of photographs will be sufficient to cover the entire restoration area. Physical characteristics of the site remediation relative to wetland structure and function, will be assessed by visual observation to determine impacts to the marsh from erosion, sedimentation, runoff, or wildlife damage.

During wetland monitoring activities, including plot sampling and photography, general observations of flora and fauna species throughout the ECMA were noted. The species encountered and habitat type were recorded. The results of these observations can be found as Attachment G-3.

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# 3.3 Tidal Gauging

Tidal gauging at either manual staff locations or electronic continuous water level installations installed as stilling wells was not initiated during this second quarter 1996 wetlands monitoring activities.

#### **4 MONITORING RESULTS**

Table G-1 presents total percent vegetative cover results for each sample plot. The presence of cordgrass was not documented at any transect plot. Unconsolidated sediments and mudflat habitat were observed throughout the excavated zones. Ongoing construction activities are occurring in the vicinity of Zone 3 and have impacted some wetland habitat.

A total of approximately 3,800 cordgrass (<u>Spartina alterniflora</u>) plugs were planted in July 1995. As indicated, establishment of cordgrass has met with very limited success in the excavated zones. Other native, opportunistic species, including dwarf spike rush (<u>Eleocharis parvula</u>), Salt Hay Grass (<u>Spartina patens</u>), and Salt Marsh Fleabane (<u>Pluchea purpurascens</u>) are re-colonizing the planted areas. Excellent mud flat habitat has also been established in certain areas of all the excavated zones. Dominant stands of phragmites in the planted areas are not apparent at this point in the monitoring program.

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#### 5 CONCLUSIONS

The original planting program conducted in July 1995 appears to have had limited success in establishing new areas of cordgrass. The excavated zones appear to have sustained substantial plant mortality. The unconsolidated nature of the sediments remaining after excavation activities, harsh winter weathering conditions, and tidal action has apparently limited cordgrass establishment. Ongoing construction activities in the vicinity of Zone 3, and local wildlife feeding in Zones 4 and 5, also appear to have contributed to destruction of cordgrass.

Although replanting success appears to have failed in the attempt to establish cordgrass communities, the overall appearance of the ECMA has been enhanced. Patchy interspersions of several plant species were noted outside of the sampling plots, creating a diverse wetland ecosystem. Wildlife appeared to be somewhat more abundant than previously noted with utilization by a good number of species. Specifically, fiddler crabs were noted in excellent and hardy abundance, while other avian species were observed to be foraging in non phragmites or mudflat habitats (i.e., salt marsh fleabane areas). A list of species observed during the field sampling are presented in Attachment G-3.

Current monitoring activities are not solely directed toward the establishment of cordgrass (Spartina alterniflora) in the excavated zones. Other native, non-phragmites, opportunistic species (i.e., Eleocharis parvula) were observed to be recolonizing planted areas and have value to various avian species. The control of common reed into the newly planted wetland is being attempted by allowing the natural process of tidal flushing. No manual or chemical control measures were, or will be, implemented.

At this point in time, no corrective action (such as replanting) is recommended for the site. Natural processes should be allowed to continue to naturally establish a plant community which can sustain the current dynamic conditions present at the site. Continued monitoring will be necessary to further evaluate the program goals.

# **TABLE**

# Table G-1 Kin-Buc Landfill Operable Unit 2 - ECMA Total Percent Vegetative Cover By Plot

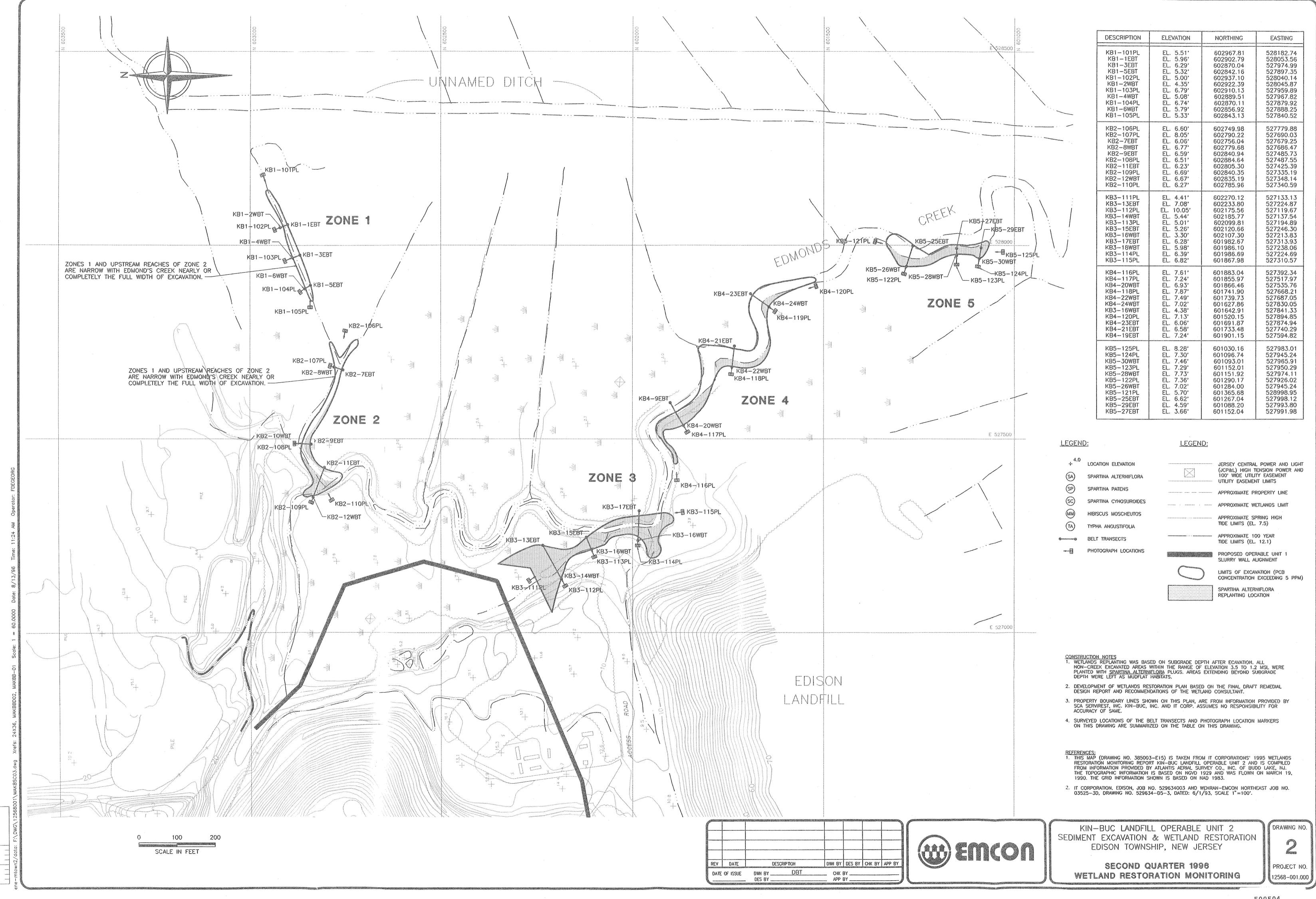
Transect	Plot Number	Percent Cover
,	Zone 1	
KB1-1EBT(1)	1	20
) -	2	<5
	3 (2)	<5
KB1-4WBT	1	0
	2 (2)	0
	3	20
KB1-6WBT	1	2
	2 <sup>(2)</sup>	<1
	3	<5
	Zone 2	
KB2-8WBT	1	<5
	2	0
	3	0
KB2-10WBT	1	<5
	2	<1
	3	<1
KB2-12WBT	1	20
	2	<5
	3	<1
	Zone 3	
KB3-13EBT <sup>(3)</sup>	1	50
	2	<5
	3	<5
KB3-18WBT	1	10
	2	0
	3	0
KB3-16WBT <sup>(4)</sup>	1	<2
	2	<1
	3	<1

Transect	Plot Number	Percent Cover			
Zone 4					
KB4-20WBT	1	45			
	2	50			
	3	35			
KB4-22WBT (5)	1	20			
	2	30			
	3	30			
KB4-24WBT (5)	1	0			
	2	0			
	3	<1			
Zone 5					
KB5-26WBT	1	<1			
	2	10			
	3	0			
KB5-28WBT	1	<5			
	2	0			
	3	0			
KB5-30WBT	1	30			
	2	<1			
	3	<1			

#### Notes:

- (1) Weathering obliterated transect plot stake; plot sampling accomplished at east bank transect stake.
- (2) Low tide channel prohibits plot placement so plot repositioned on opposite bank and sampling continued up vegetated bank.
- (3) Construction activities cover transect plot stake; plot sampling accomplished at east back transect stake.
- (4) Construction activities cover transect plot stake; plot sampling accomplished at transect photograph location.
- (5) Indicates parallel plot sampling method.

# **DRAWING**



# ATTACHMENT G-1 PLOT SAMPLING DATA SHEETS



Date:	7	118	196

Time: 1610

comments/observations:

Personnel: D. Eierstine 10. Tomphins

Project: WinBue 12508-001.000

Location: ECWA 042

Transect: VBI- 1EBT

plot number	species observed	percent cover
	reed	20
/ [	salt bay grass	ci
· L		
		!
	tot	al 20

plot number	species observed	percent cover
	reed	25
1 2 [		
, ,		
	total	45

plot number	species observed	percent cover
	reed	
っ		
5 E		
	tota	25

$\underline{\mathcal{U}}$	coldu	' <i>f</i> (	oute	KB1 -	ZWBT	
(2)	elet	# 3	012	Pencelte	vegetated	bird

(3) plotos 11/ fc 102 PL



PLOT SAMPLING DATA SHEE	PI	OT S	AMPI	ING	DAT	A SH	1EE
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Date:	7/18/96
Time:	1606
	D. E. erstine 10. Tomphing
	WinBuc 12508-001.000
Location:	ECWA DUZ
Transect:	KBI-4 WBT

plot number		percent cover
	mud Hat	
/ [		
<u> </u>		
	total	0

plot number	species observed	percent cover
	wad flat	
2 L		
	tota	

plot number	species observed	percent cover
	reed	20
		· · · · · · · · · · · · · · · · · · ·
		•
1 -		
		2 7 0
	tot	all C C

comments/observations:			
O plot	tt 2 3	en opposite	
vege 1	wood bank		· .
(2) photo	10376		



Date:	7/18/96
Time:	1620
	D.Bierstine D. Tomphins
	WinBuc 12508-001.000
Location:	ECWA OUZ
Transect:	KBI-6WBT

plot number	species observed		percent cover
	veed		2
1 / [_		-	
		total	2_

plot number	species observed		percent cover
	raed		4
<u> </u>			· · · · · · · · · · · · · · · · · · ·
2			
<u></u>	-		
		-+	
		otai	l i

plot number	species observed	percent cover
	reed	45
1 5 L		
-		
	total	25

comments/observations:		<u>, </u>		
O plot	# 2,3 on	opposite	vegetat	ed
hark				
(2) Plyto.	5 ioy pu			
	105 PC			
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			· · · · · · · · · · · · · · · · · · ·



Date:	1/18/96	
Time:		
Personnel:	D. Bierstine D. Tomphi	rs
Project:	WinBuc 12508-001.000	
Location:	ECWA DUZ	
Transect:	MB2- 8WBT	

plot number	species observed		percent cover
	reed		45
	·	total	<b>L</b> 5

plot number	species observed		percent cover
	mud flat		·
2		<del></del>	
		· · · · · · · · · · · · · · · · · · ·	
		total	

plot number	species observed		percent cover
	week Hat		
1 7		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	} 
		total	0

comments/obs	servations:		 	
	photos	106 PL		
		106 PL 107 PL		
,				



PLOT SAM	IPLING DATA	SHEET				
Date	7/18/9	ne/D.Towph.ns				
Time:	15210					
Personnel:	D. Biershi	re/D. Tomphins				
Project:	WinBese 1	1388-001.000				
	ECWA					
Transect:	HB2-	IOWBT				
	plot number	species observ	/ed	percent cover	,	
		reed		25		
	/ /					
	"					
					,	
			total	15		
	plot number	species observ	red	percent cover		
		reed		21		
	<b>\</b>					
	4					
	-					
	-					
			40401	Li		
			total	61		
	plot number	species observ	ed	percent cover		
		iluart spike	rush	61		
	$\neg$					
	5 [					
		· · · · · · · · · · · · · · · · · · ·	total	ci		
	bservations:					
comments/c	bservations.					-
	D planto	108 FC	<del></del>			
	V 1.11' 10	101) (				
	· · · · · · · · · · · · · · · · · · ·					
·						
			<del></del>	<del></del>		



Date:	7/18/96
Time:	
	D. Bierstine D. Tomphins
Project:	WinBie 12508-001.000
Location:	ECWA OUZ
Transect:	MB2 - 12WBT

plot number	species observed		percent cover
	reed		20
/	polygoueum spp.		c 1
·			
		total	20

plot number	species observed	percent cover
	doort spike rugh	L5
	on und Hat	
12		
		<b></b>
-		
		1
	tota	11 65

plot number	species observed	percent cover
	durant spike rush	e 1
	on wood that	
5 [		
	tot	al 41

(i) photos	109 82				
	109 PL				
			y.		



Date:	7/18/96	
Time:	1805	
Personnel:	R. Bierstine 10. Towphin	ي
Project:	KinBise 12308-001.000	
Location:	ECWA OUZ	
Transect:	KB3-1ZEBT	

plot number	species observed	percent cover
	soltwarsh Meabour	15
	reed	25
	durat spike ruch	15
	salt boy grass	15
	salt warsh solvush	15
	total	50

plot number	species observed	percent cover
	soft warsh fleature	C5
	salt warsh buloush	25
1 2 [	dwarf spike rush	65
	total	i S

plot number	species observed	percent cover
	reed	15
	durat spike rush	45
5	salt bay gones	-5
	tota	1 4

comments/observations:

(1)	wold in'	(E) wer, plots of El	3T westynction
	activ.7	ies wer, plots at El	
( <del>2</del> )	plus tos	4B3-111PC	
	•	112 86	



Date:	7/18/96	
Time:	1645	
Personnel:	P. Bierstine / D. Towphing	5
Project:	Kinbine 12508-001.000	
Location:	ECWA DUZ	
Transect:	MB3-16WBT	

plot number	species observed	percent cover
	dwarf spile rush	61
	soft march bulouch	62
		<u> </u>
-		
-		
	tota	1 62

plot number	species observed	percent cover
	duart spilit ruch solt march bulrush	61
	solt march bulrush	LI
	total	Li

plot number	species observed	percent cover
	dwart spike rush	61
7		
1 5 1	,	
<b> </b>		
	total	0/

comments/ol	bservations:				 
	1) walde	it find	WDT,	plits	
	(i) 13 hitz	113 PC		-	

Date:	7/18/96
Time:	
	D. Bierstine / D. Tompkins
Project:	Kinbine 12508-001.000
Location:	
Transect:	MB3-18WBT

plot number	species observed	percent cover
	reed	10
/ [	soft marsh Healave	ii
	polygoneum spp.	61
	total	10

species observed	percent cover
mud flat	
	species observed  mud flat  total

plot number	species observed		percent cover
	mod Mut	-	
1 7			***************************************
L		total	0

comments/observations	S:			· · · · · · · · · · · · · · · · · · ·	
<i>O</i> 4	Foot	drop	midde	plet	H I
(2) P	liptos	11412			
		175 10			



Date: 7/18/96 Time: 1705

Personnel: D. E. restine | D. Tomph.ns
Project: WinBir 12508-001.000
Location: ECWA 0U2

Transect: KB4-20WBT

plot number	species observed		percent cover
	suffwarsh fleaband		20
/	saltwarsh fleubau		10
/	reed		10
	marsh crack		5
]			
		total	45

plot number	species observed	percent cover
	sult warsh fleasone	50
] _ [	salt warsh flexione	45
12[		
	total	50

plot number	species observed	percent cover
	duart spike ruch	30
	veed	3
15		
<del></del>	tol	al 35

comments/observations: photos

Date:	7/18/96
Time:	1715
Personnel:	D. E: erstine 10. Tomphins
Project:	WinBix 12508-001.000
Location:	ECWA OUZ
Transect:	17B4-22WBT

plot number	species observed	percent cover
	reed	20
/		
	; *	
-		
-		
		total Z O

plot number	species observed		percent cover
	reed		30
1 2			
			·
	·		
		total	30

plot number	species observed		percent cover
	v < c(		30
	morsh orach		41
5 5			
		total	30

mments/observations:			
Oplots m	walter f	o state (ch	annel !
# 1 75	up stream	o state (ch	
(2) Steep	drop to	channel	
(3) jolotes	118 PC		



Date:	7/18/96
Time:	1725
	P. Bierstine / D. Tomphing
Project:	WinBuc 12508-001.000
Location:	ECWA DUZ
Transect:	KBY-ZTWBT

plot number	species observed	r	percent cover
	med Mat		0
/			
	·		
	•	total	0

plot number	species observed	percent cov	/er
	species observed	0	
2			
_			
		total O	

plot number	species observed	percent cover
	reed sp. Ke rush	11
	reed	Ci
1 5		
	tota	1 4/

ients/obs	ervations:					
(1)	Mots	FAR	the h	stale	e (cha	nec)
	#1	ī5	upsto	enn		
(1.)	ste.	o dep	· h c	tonel		
(2)	chol	ر د ج	1/9 PL	·	· · · · · · · · · · · · · · · · · · ·	
		/	12071			



Date:	7/18/96
Time:	
Personnel:	P.Bierstine D. Towphin.
	Kinbuc 12508-001.000
Location:	ECWA OUZ
Transect:	HB5-26WBT

plot number	species observed	percent cover
	duport spike ruch	21
/	dwarf spike ruch	61
	<u>.</u>	
	tota	al C /

species observed	percent cover
dwart spike rush	10
	<u> </u>
	ilwart sp. ke rush

plot number	species observed	percent cover
	und Hat	0
15		
	tota	0

comments/observations:			 	
Orboto	12/ PL	<del></del>		
	121 PL 122 PL		 · · · · · · · · · · · · · · · · · · ·	

Date:	7/18/96
Time:	1745
Personnel:	D. Bierstine 10. Tomphins
Project:	KinBie 12588-001.000
Location:	ECWA 0UZ
Transect:	MB5-2BWBT

plot number	species observed		percent cover
	reed		C5
/		1	
	<del></del>		
<b></b>	· · · · · · · · · · · · · · · · · · ·		
		total	25

plot number	species observed	pe	rcent cover
	med trot		
1 3 <del> </del>		_	****
4  -		-	·
	en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		······································
	t	otal	<u>ට</u>

plot number	species observed	percent cover
	mud that	
フト		
1 5 1		
<u> </u>		
		otal 💍

comme	nts/obser	vations:			
	1	photos	123 PC		



Date:	7/18/96	
Time:	1755	
	D. E: erstine / D. Tomphin	ی
Project:	Kinbine 12508-001.000	
Location:	ECWA DUZ	
Transect:	MBS-30WBT	

plot number	species observed	percent cover
	calt hay grass	2-5
1 / [	reed	25
	durant spike rosh	Li
	solt march fleabane	21
	total	30

plot number	species observed			percent cover	
	duret	Spile	ras	6	ci
	read				Ci
1 2 [					
1 - 1			1		
			ı		
			1 .		
				total	i /

plot number	species observed	percent cover
	dwart spile ruch	ci
	reed	Li
1 5 F		
Γ		
	total	41

comments/obs	ervations:			
4	) photos	124 pc		
		124 pc 1258C		
		-	ı	
			ı	

# ATTACHMENT G-2 SITE PHOTOGRAPHS



Photo taken at KB1-101PL



Zone 1: Photo taken at KB1-102PL



Zone 1: Photo taken at KB1-103PL



Zone 1: Photo taken at KB1-104PL





Zone 1: Photo taken at KB1-105PL



Photo taken at KB2-106PL



Zone 2: Photo taken at KB2-107PL





Zone 2: Photo taken at KB2-108PL



Zone 2: Photo taken at KB2-109PL





Photo taken at KB2-110PL





Photo taken at KB3-111PL



Zone 3: Photo taken at KB3-112PL



Zone 3: Photo taken at KB3-113PL



Zone 3: Photo taken at KB3-114PL





Photo taken at KB3-115PL



Photo taken at KB4-116PL



Zone 4: Photo taken at KB4-117PL





Zone 4: Photo taken at KB4-118PL



Zone 4: Photo taken at KB4-119PL



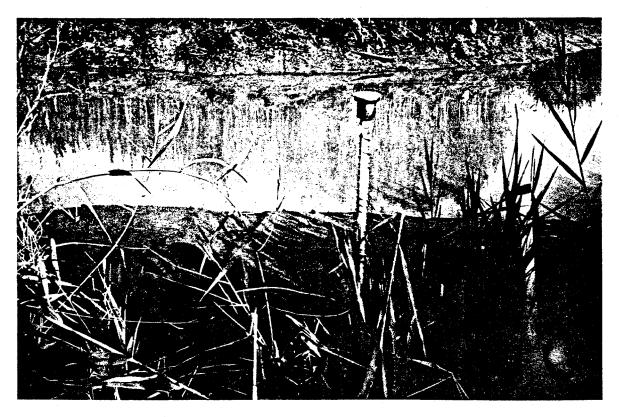


Photo taken at KB4-120PL

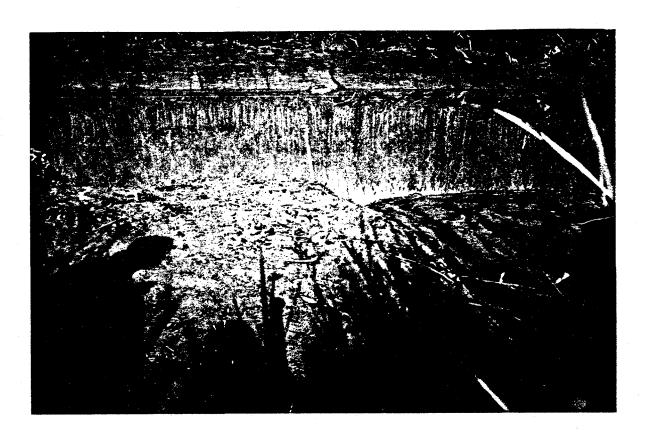




Photo taken at KB5-121PL



Zone 5: Photo taken at KB5-122PL



Zone 5: Photo taken at KB5-123PL



Zone 5: Photo taken at KB5-124PL



Photo taken at KB5-125PL

# ATTACHMENT G-3 FIELD MEMO

#### MEMORANDUM

TO: File

DATE: August 16, 1996 PROJECT: 12568-001.000

FROM:

David B. Tompkins and Ron Bierstine

RE:

Kin-Buc OU2 Wetland Monitoring - ECMA Wildlife Observations

During the July 1996 site visit to the OU2 Area of Kin-Buc Landfill (Edmunds Creek Mack Area, ECMA), a variety of wildlife species were noted utilizing the ECMA. These species included the following:

Species	Scientific Name	Habitat Type
Killdeer	Charadrius vociferus	1,5
Mourning Doves	Zenaida macroura	5
Red Wing Blackbirds	Agelaius phoeniceus	4,5
Cardinal	Cardinalis cardinalis	4
Starlings	Sturnus vulgaris	5
Song Sparrow	Melospiza melodia	4
American Goldfinches	Carduelis tristis	3,4
Rough Winged Swallows	Stelzidopteyx serripennis	3
Snowy Egret	Leucophoyx thala	5
Fiddler crabs	Uca spp.	1
Mummichug	Fundulus heteroclitus	2
Muskrat	Ondatra zibethicus	1
Mallard	Anas platyrhynchos	5
Sanderlings	Crocethia alba	1

Habitat Types 1 = Mudflats, 2 = Waterways

3 = Flyover, 4 = Phragmites stands

5 = Non-Phragmites, vegetated area

File

August 16, 1996

Page 2

Plant species noted in the ECMA included the following:

Marsh Orach

Atriplex patula

Salt Marsh Fleabane

Pluchea purpurascens

Lady's Thumb

Polygonum persicaria

Salt Reed Grass

Spartina cynosceroides

**Dwarf Spike Rush** 

Eleocharis parvula

Black Grass

Juncus gerardii

Salt Marsh Bulrush

Scirpus robustus

Common Three Square

Scirpus americanus

Blue flag

Iris versicolor

Salt Hay Grass

Spartina patens

Salt Grass

Distichlis spicata

-